COLOR VIDEO CAMERA CAMERA ADAPTOR 1.5INCH ELECTRONIC VIEWFINDER ZOOM LENS





VOL. 2
BLOCK DIAGRAMS
SEMICONDUCTORS
SCHEMATIC DIAGRAMS
BOARD ILLUSTRATIONS
SPARE PARTS





SAFETY RELATED COMPONENT WARNING

Components identified by shading and \triangle marked on the schematic diagrams and parts list are critical to safe operation. Replace these components with SONY parts whose part numbers appear as shown in this manual or in supplements published by SONY.

Warning—This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC rules.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A pour bruits radioélectriques, spécifiés dans le Règlement sur le brouillage radioélectrique.



SPECIFICATIONS

Focal length

7.5 to 90 mm

Zoom

Manual and motorized, selectable

Zooming ratio: 12 ×

Maximum aperture ratio

1.4

Iris control

Manual and auto, selectable

1.4 to 16 and C (closed)

Range of object field (at the distance of 1.1 m)

W (wide angle): 660×880

(24¹/₂ × 34 ³/₄ inches)

T (telephoto): 55×73 mm

T (telephoto): (21/4 × 3 inches)

Minimum object distance

1.1 m

Filter thread

72 mm dia., 0.75 pitch Bayonet mount, ½ inch

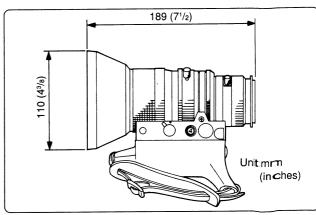
Mount Weight

About 1.2 kg (2 lb 4 oz) with lens hood

Supplied accesory

Operating instructions (1)

Dimensions

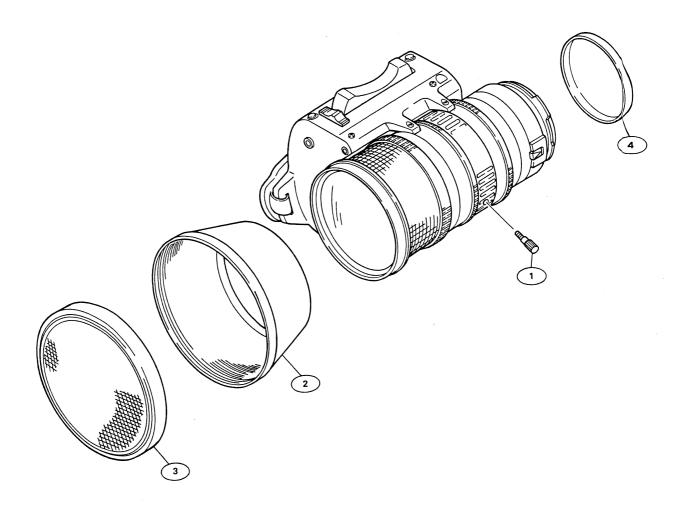


Design and specifications are subject to change without notice.



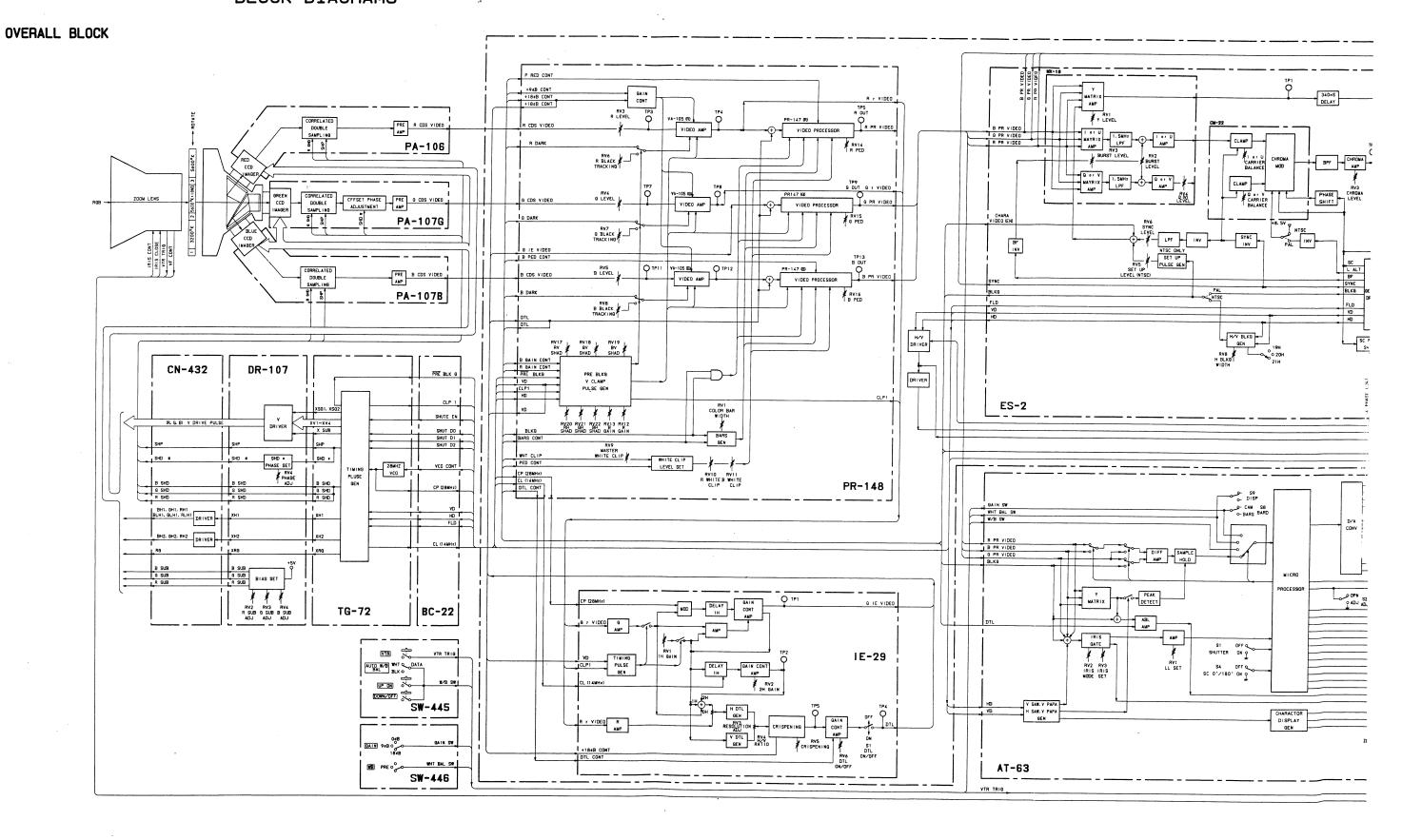
No. Part No. SP Description

1 3-707-247-01 o LEVER, ZOOM 2 3-708-108-01 o HOOD 3 3-708-109-01 o CAP, HOOD 4 3-708-110-01 o CAP, DUST



- 1 -

SECTION A BLOCK DIAGRAMS



DXC-327 (J, UC) DXC-327P (EK)

A-1

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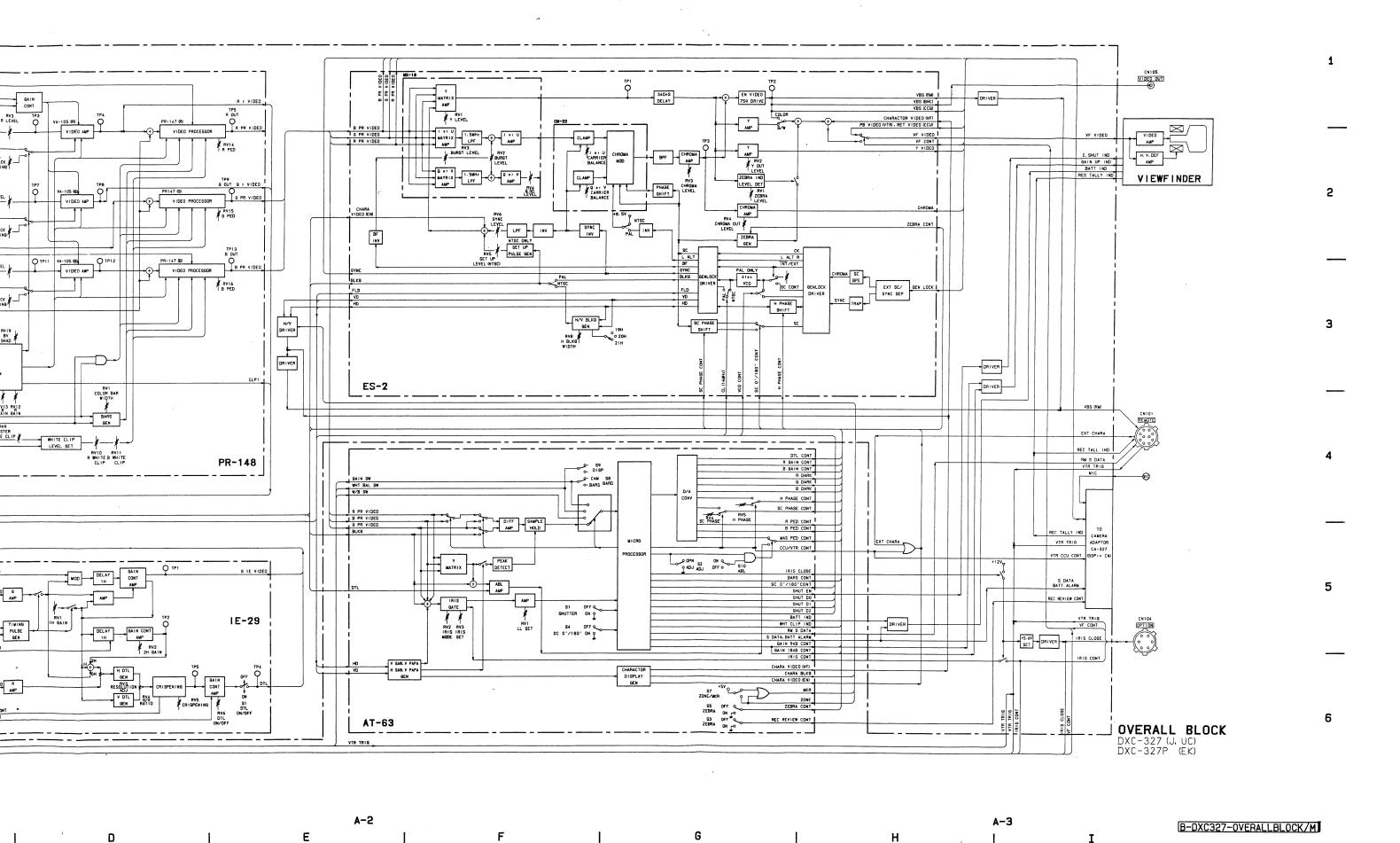
D

A-2

=

G

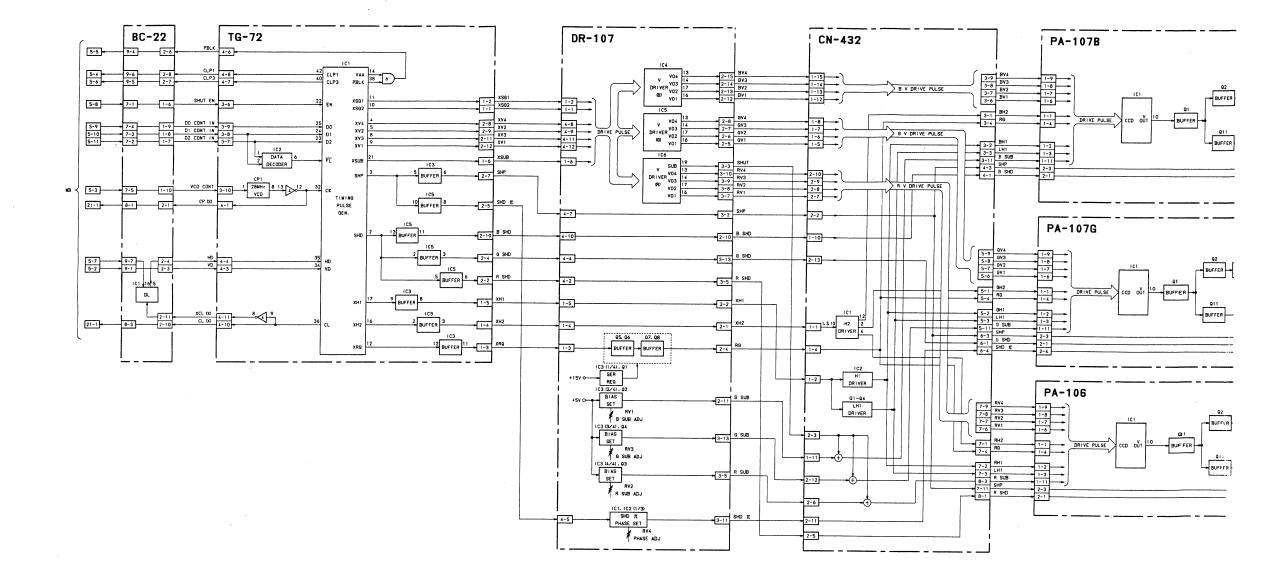
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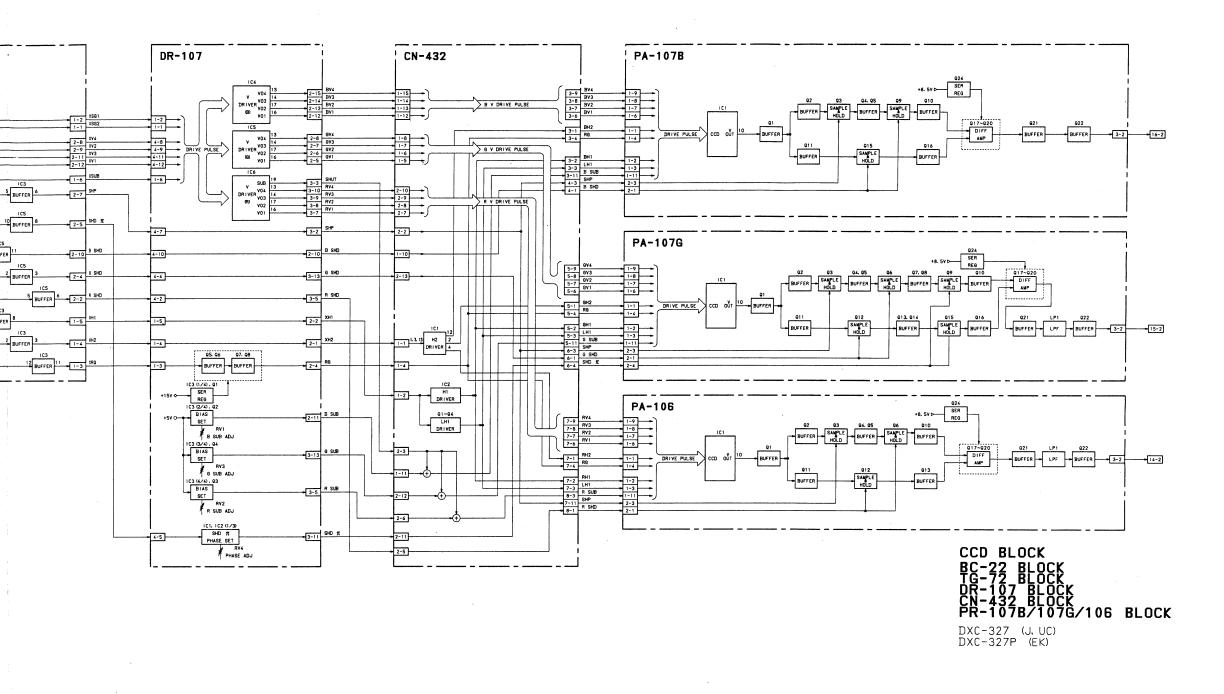
Н

I

CCD BLOCK



B-DXC327-CCDBLOCK/M



A-5

E F G DXC-327 (J, UC)
DXC-327P (EK)

I

2

9 IE VIDEO 2-4 PR 1 AMP 3 3 PR 2-3 G T VIDEO 00 2-3 PR 2-13 CL 00 2-13 PR 1-6 +18dB CONT 1-6 PR 1-4 DTL CONT TIMING PULSE GEN IE-29 BLOCK PR 1-3 CLP1 1-3 PR 1-5 DXC-327 (J, UC) DXC-327P (EK)

3

6

DXC-327 (J, UC) DXC-327P (EK)

С

Ε

B-DXC327-IE29BLOCK/M

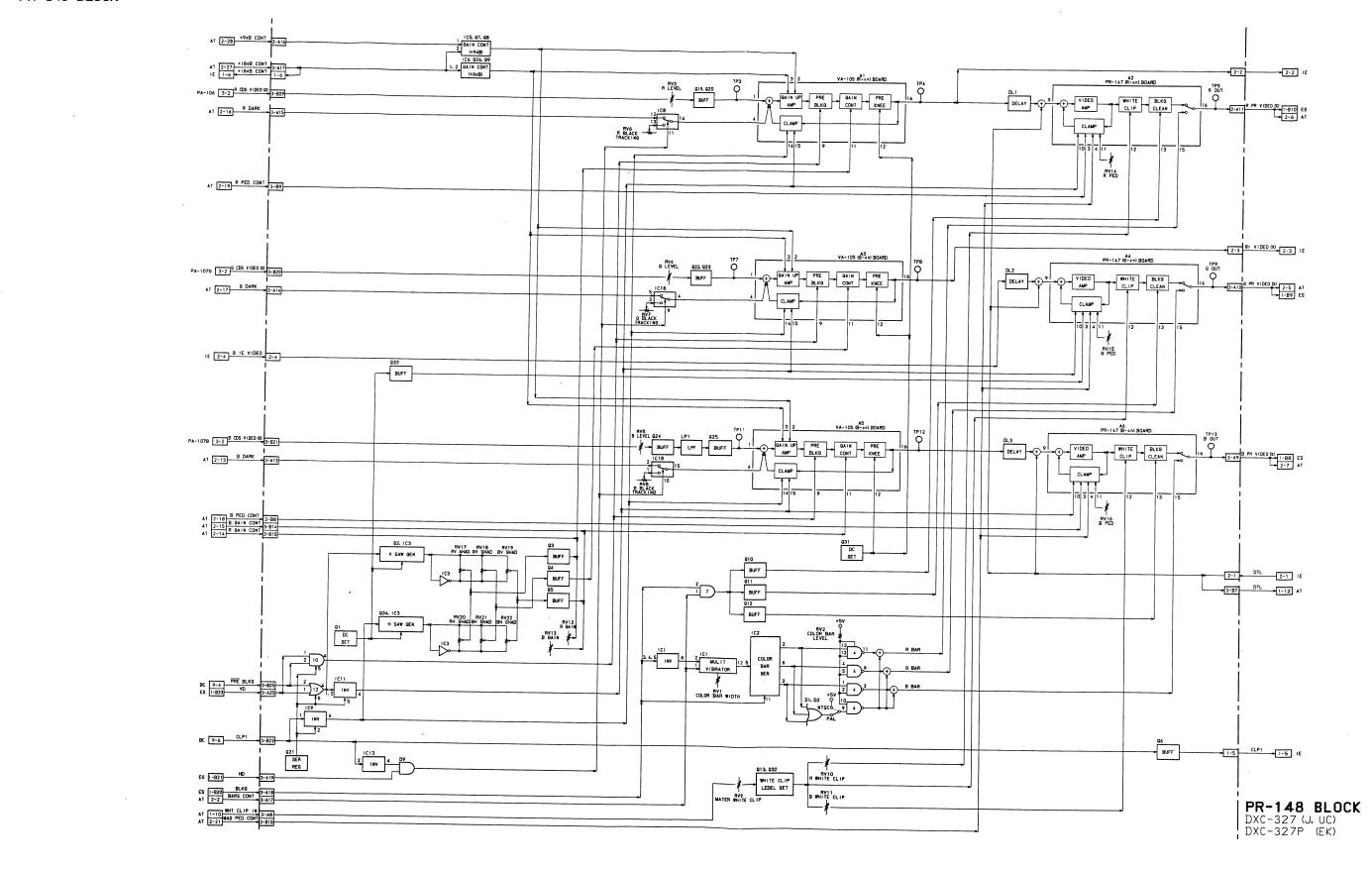
PR-148 BLOCK

2

3

5

6



B-DXC327-PR148BLOCK/M

A-9

DXC-327 (J, UC)

DXC-327 (EK)

A B C J E J F

- A14 VBS (CCQ) (X) - 3-B12 (CA-327) PB V DEO (CCU) 3-B10 (CA-327) SARRIER R60. C109 1C4 LPF 13 BF 12 B18 VF VIDEO (X) VF. CN102-6 VF CONT 3-A11 3-B11 (CA-327) B13 ZEBRA CONT 2-23 AT 49 Y VIDEO OO 3-B15 (CA-327) RV2 CHR VIDE (EN) INV AMP BUFF CHROMA CO 3-B14 (CA-327) 3 RYKOMA OUT LEVEL B22 VCD CONT 7-5 BC → B25 CL ∞ 8-3 BC A4 BLK-WT (NTSC only) H BLKG

OEN.

V BLKG

OEN.

WY BLKG

OEN.

I/2H PULSE

OEN. ES-2 BLOCK DXC-327 (J, UC) DXC-327P (EK) 5

DXC-327 (J, UC) DXC-327P (EK)

A-11

C

A-12

B-DXC327-ES2BLOCK/M

AT-63 BLOCK

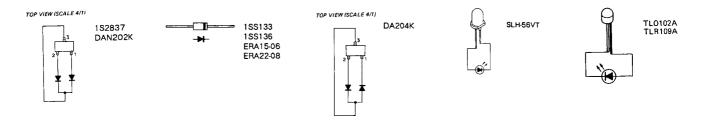
12 BUFF 14 12 BUFF 14 12 BUFF 14 2-15 B BAIN CONT 3-B14 PR 3 C14 5 BUFF 7 1 C14 10 BUFF 8 1 C14 3 BUFF 1 2-19 R PED CONT 3-B9 PR 2-18 B PED CONT 3-B8 PR RESET 11 PR 3-87 DETAIL 1-12 ES 1-B23 VD 1-7 AT-63 BLOCK DXC-327 (J. UC) DXC-327P (EK)

A-13 B-DXC327-AT63BLOCK/M DXC-327 (J, UC) DXC-327P (EK) A-14

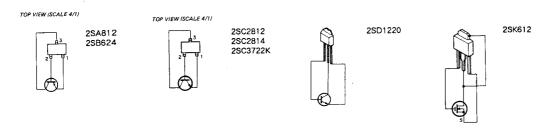
SECTION B SEMICONDUCTOR PIN ASSIGNMENTS

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

< DIODE >

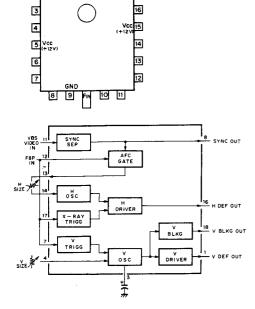


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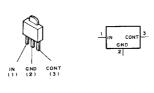


<IC>





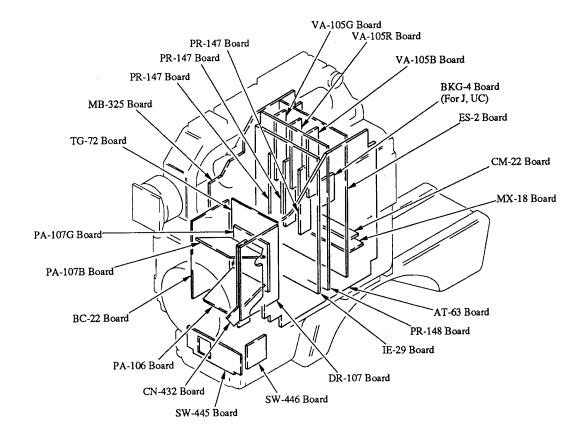
M5236ML (MITSUBISI) ADJUSTABLE VOLTAGE REGULATOR



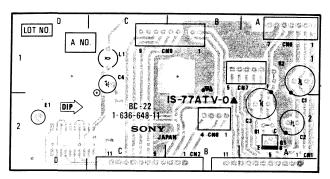
uPC358G2 (NEC) FLAT PACKAGE DUAL OPERATIONAL AMPUFIERS - TOP VIEW -



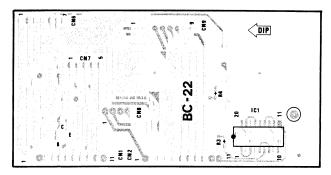
SECTION C SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



BC-22 BOARD

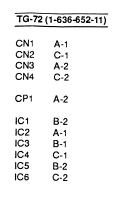


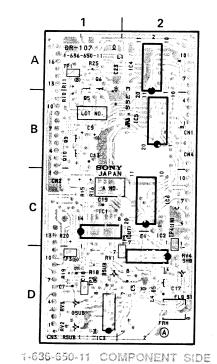
1-636-648-11 COMPONENT SIDE

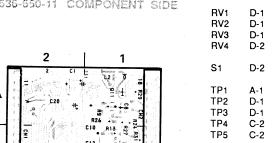


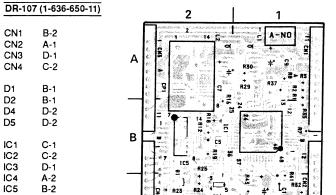
1-636-654-11 SOLDERING SIDE

TG-72 BOARD









DR-107 BOARD

A-1 D-1 C-2

B-1

D-2

C-2 D-1

A-2 B-2 C-2

D-1 D-1 D-1 B-1 A-1 B-1 B-1 B-1 A-1

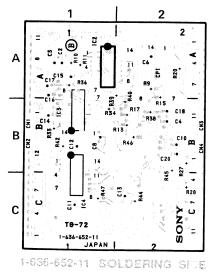
CN1 CN2 CN3 CN4

D1 D2 D4 D5

IC1 IC2 IC3 IC4 IC5 IC6

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11

1-636-652-11 COMPONENT SIDE



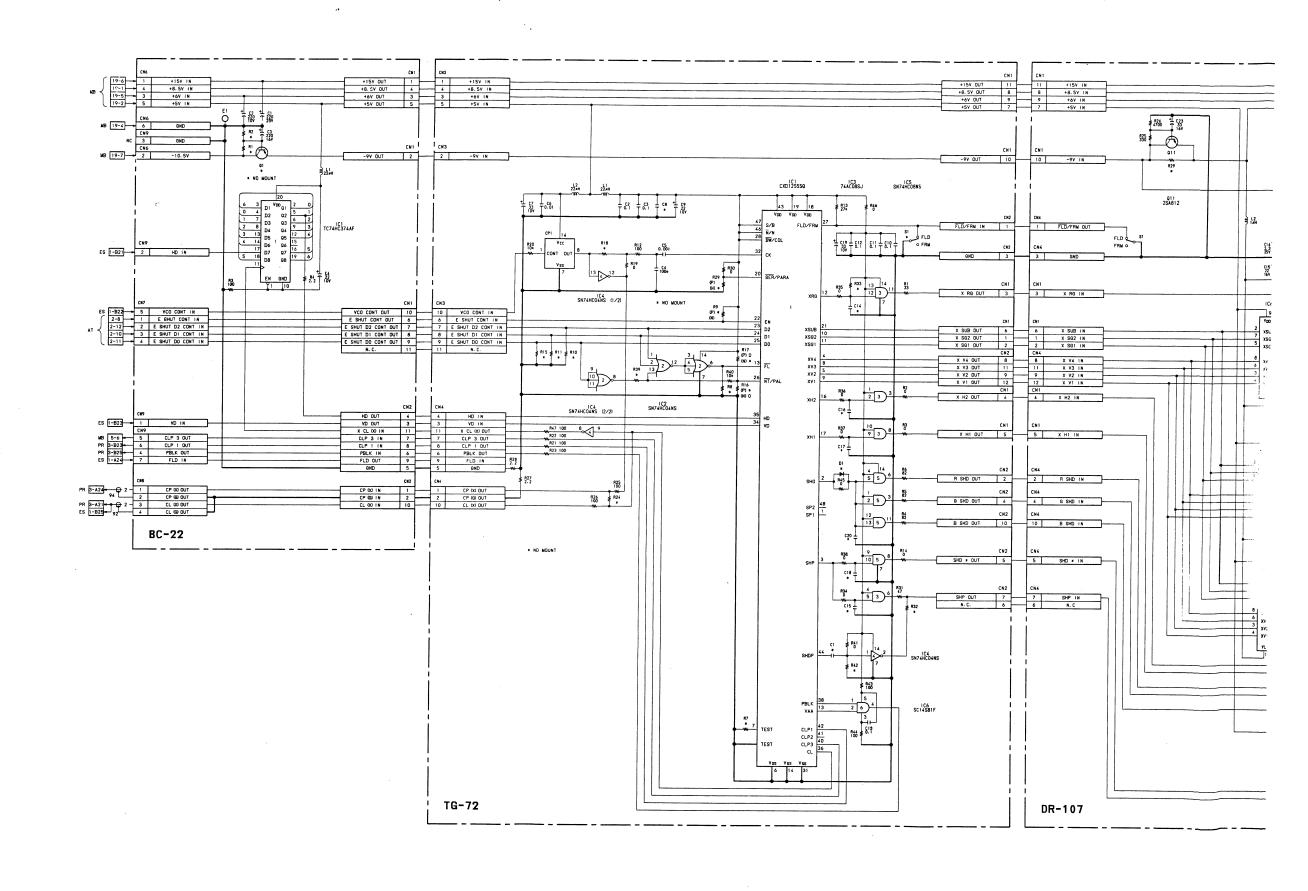
1-636-650-11 SOLDERING SIDE

В

D

CCD BLOCK (1/2)

BC-22 BOARD TG-72 BOARD DR-107 BOARD



DXC-327 (J, UC) DXC-327P (EK)

C-5 B

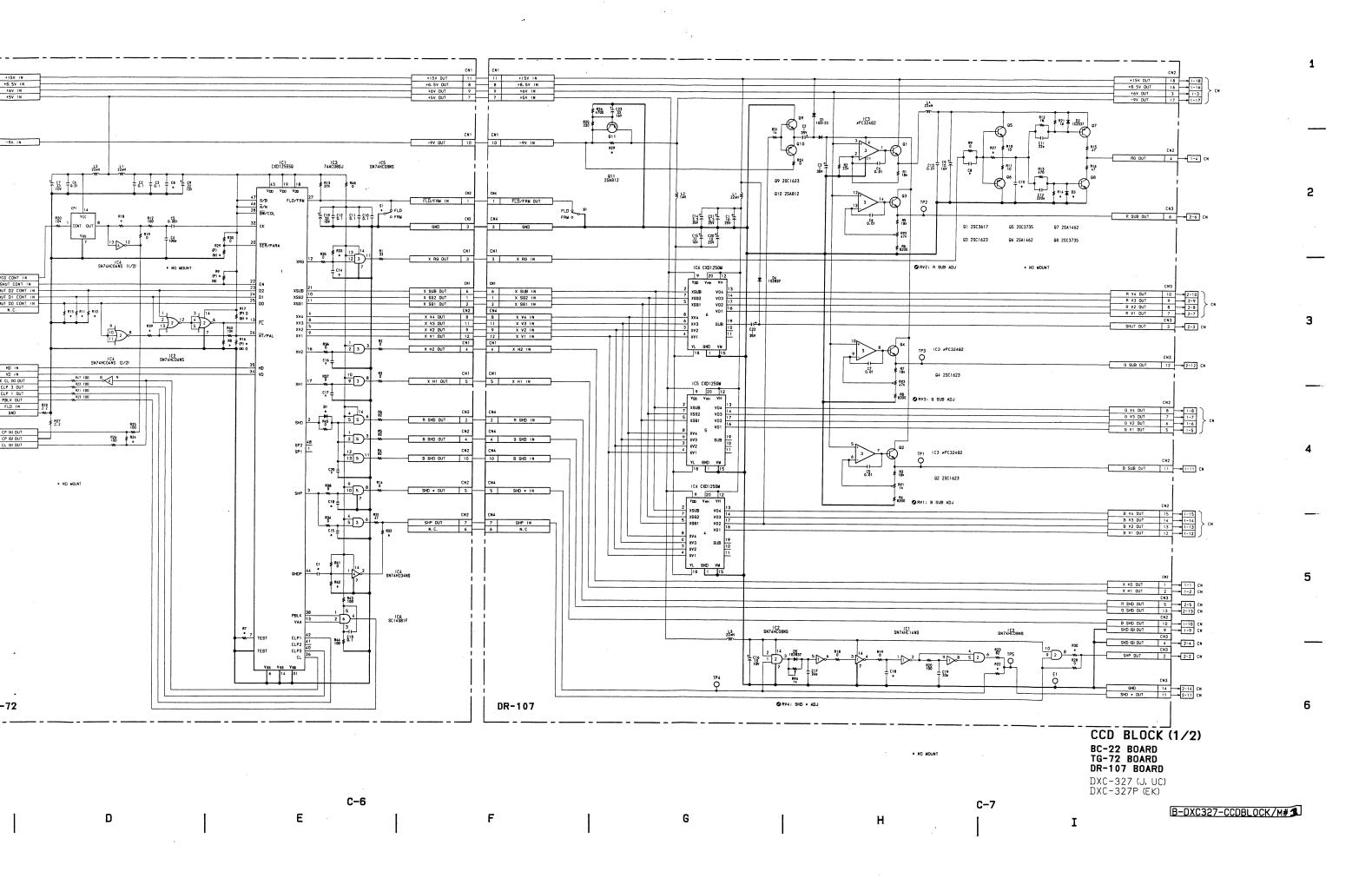
С

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E

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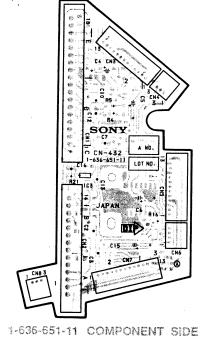
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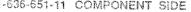


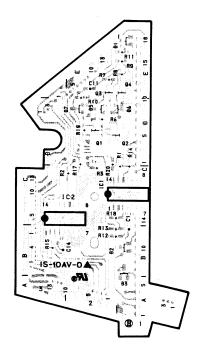
PA-





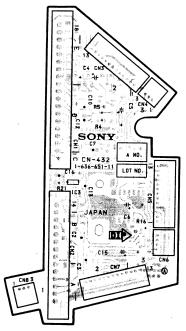




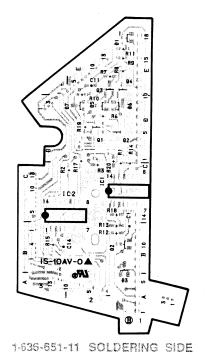


1-636-651-11 SOLDERING SIDE

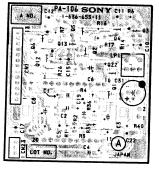
CN-432 BOARD



1-636-651-11 COMPONENT SIDE



PA-106 BOARD

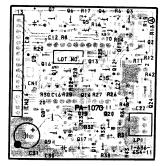


1-636-653-11 COMPONENT SIDE



1-636-653-11 SOLDERING SIDE

PA-107G BOARD



1-636-654-11, 12 COMPONENT SIDE

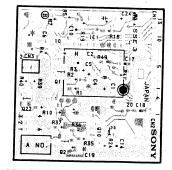


1-636-654-11, 12 SOLDERING SIDE

PA-107B BOARD



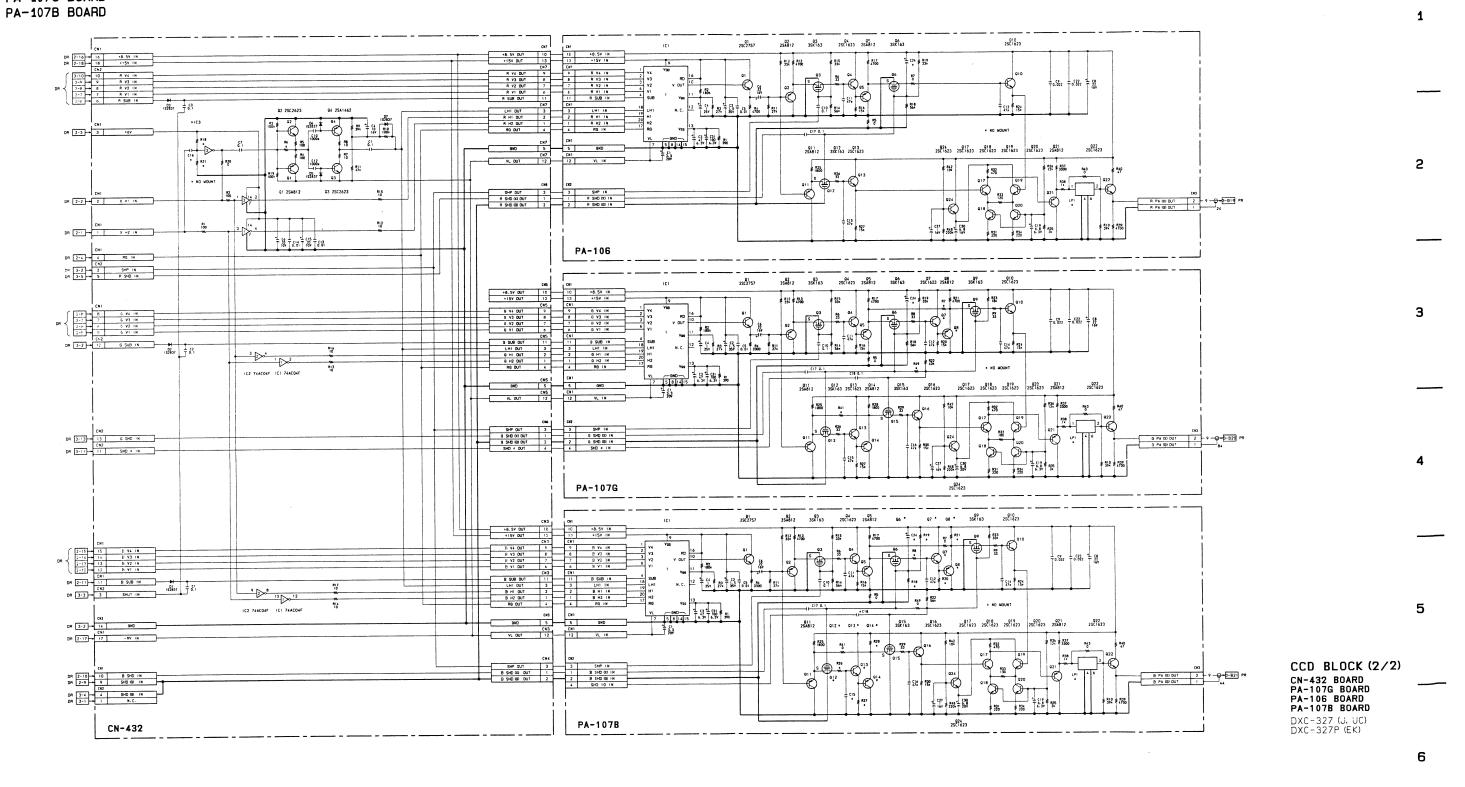
1-636-655-11, 12 COMPONENT SIDE



1-636-655-11, 12 SOLDERING SIDE

CCD BLOCK (2/2)

CN-432 BOARD PA-106 BOARD PA-107G BOARD



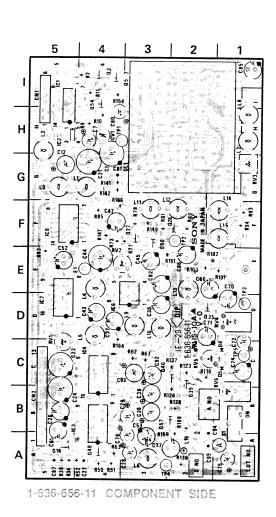
DXC-327 (J, UC) C-12

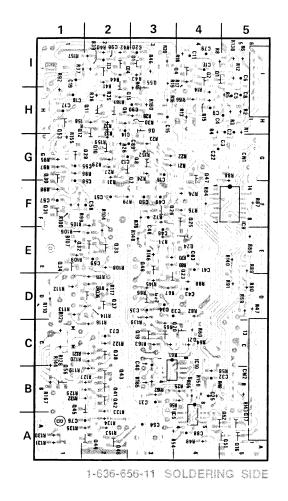
B-DXC327-CCDBLOCK/M#2

A B C D E F

IE-29 BOARD

(1-636-656-11	<u>)</u>	
G-5 B-5	Q46 Q48	A-2 A-4
G-3	Q50	E-3 F-3 A-5
I-3 C-1 C-1	Q52 Q53 Q54	A-5 A-5 H-1 I-4 I-3
E-5	Q56 Q57	B-1 B-3
I-5 G-5 B-5 C-4 A-4 D-5	RV1 RV2 RV3 RV4 RV5 RV6	C-5 E-4 G-1 D-1 C-2 C-1
F-5	S1	B-1
I-4 I-4 I-4 I-4 I-4 I-4 I-3 I-3 I-2 I-2 I-5 I-5 I-6 I-7	TP1 TP2 TP3 TP4 TP5	G-4 F-2 E-1 A-3 C-1
	G-5 B-5 G-1 G-5 G-3 I-3 C-1 E-5 G-5-5-4 I-4 I-4 I-3 G-3 H-2 I-2 I-2 I-2 I-2 I-3 I-3 I-3 I-3 I-3 I-3 I-3 I-3 I-3 I-3	B-5 Q48 Q49 G-3 Q50 Q51





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CN1 CN2	G-5 B-5	Q46 Q48 Q49	A-2 A-4 E-3
DL1	G-3	Q50 Q51	F-3 A-5
D1 D4 D5	I-3 C-1 C-1	Q52 Q53 Q54	A-9 H-1 I-4
E1	E-5	Q55 Q56 Q57	I-3 B-1 B-3
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9	I-5 G-5 B-5 C-4 A-4 D-4 D-5 F-5	RV1 RV2 RV3 RV4 RV5 RV6	C-5 E-4 G-1 D-1 C-2 C-1
IC10	C-4		G-4
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q21 Q22 Q23 Q24 Q25 Q26 Q27 Q28 Q29 Q30 Q31 Q31 Q31 Q31 Q31 Q31 Q31 Q31 Q31 Q31	I-4 I-4 I-4 I-3 I-3 I-3 I-3 I-2 I-2 I-2 I-2 I-2 I-2 I-3 I-3 I-3 I-3 I-3 I-3 I-3 I-3 I-3 I-3	TP1 TP2 TP3 TP4 TP5	F-2 E-1 A-3 C-1
Q41 Q42 Q43 Q44 Q45	B-2 B-2 B-2 A-2 B-1		

IE-29 (1-636-656-11)

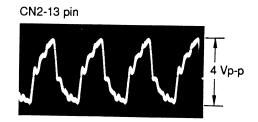
IE-29 BOARD

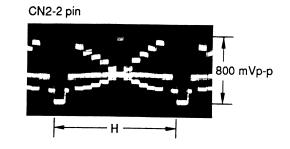
NOTE:

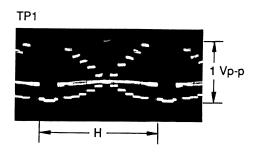
- 1. All voltage are DC, measured with a digital voltmeter.
- 2. All waveforms are taken and DC voltage is measured in condition below.
- Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.
- GAIN : 0 dB
 WHITE BAL : PRE
 ABL : OFF
 SHUTTER : OFF
 ZEBRA : OFF
 VF MARKER : OFF
 PHASE : 0°

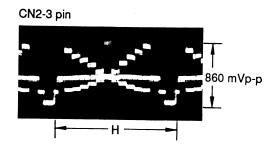
: OFF

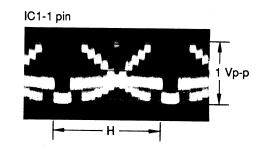
• BARS

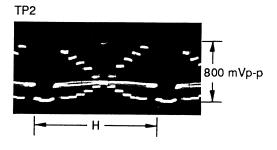


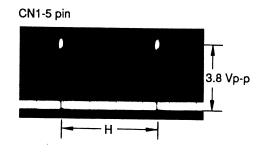


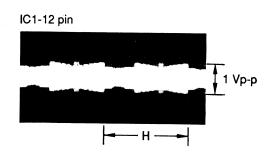


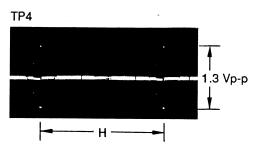




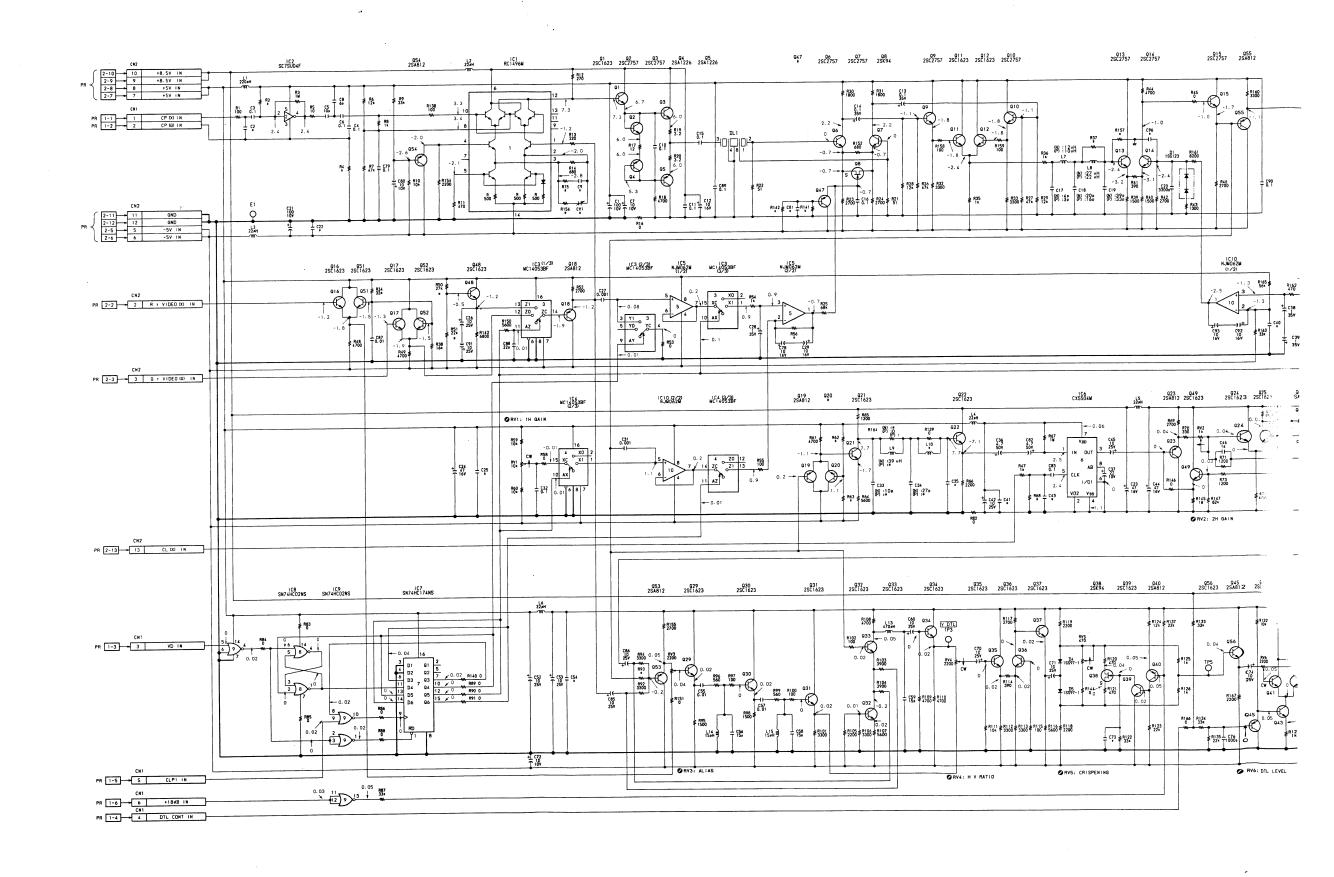








IE-29 BOARD



DXC-327 (J, UC) DXC-327P (EK)

C-19 B

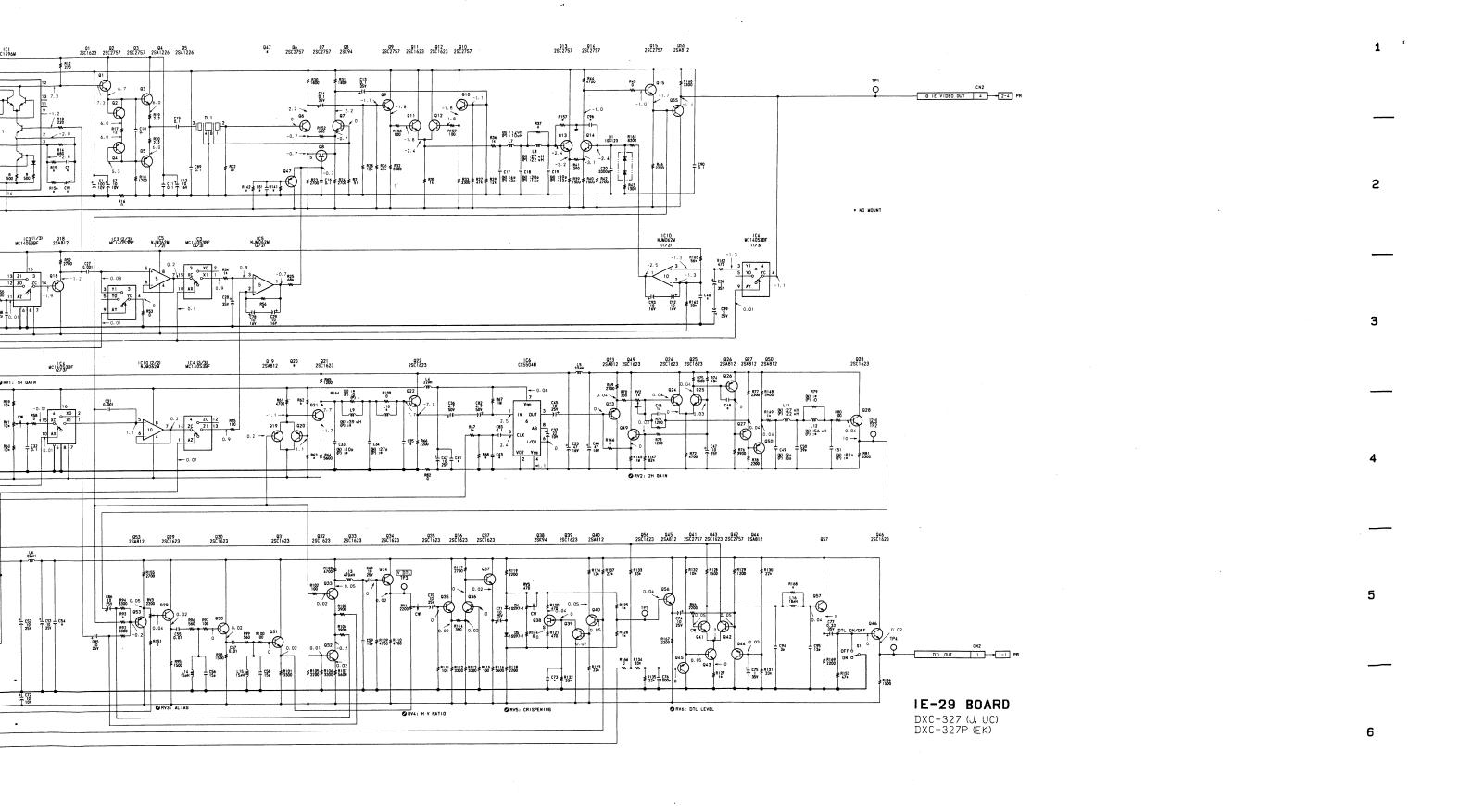
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C-20

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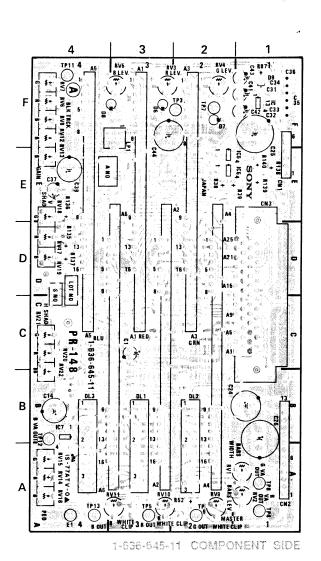


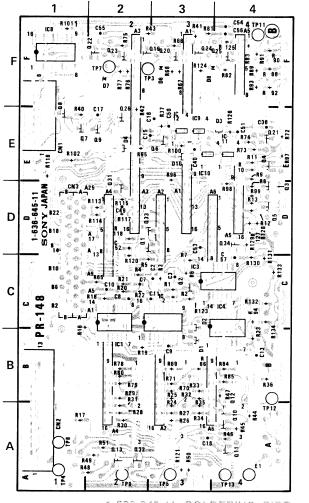
C-20

D | E | F | G | H | I

PR-148 BOARD

PR-14	8 (1-636-645-	11)	
CN1 CN2 CN3	E-1 A-1 E-1	RV1 RV2 RV3	A-2 A-1 F-3
DL1 DL2 DL3	B-3 B-2 B-4	RV4 RV5 RV6 RV7	F-2 F-3 F-4 F-4
D3 D4 D6 D7 D8 D9	E-4 E-2 F-3 F-2 F-4 F-1 E-3	RV8 RV9 RV10 RV11 RV12 RV13 RV14 RV15	F-4 A-2 A-3 A-3 F-4 E-4 A-4
E1	A-4	RV16 RV17	A-4 D-4
IC1 IC2 IC3 IC4 IC5	B-2 C-3 C-3 C-4 E-1	RV18 RV19 RV20 RV21 RV22	E-4 D-4 C-4 C-4 C-4
IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13	E-1 B-4 F-1 E-3 E-3 E-4 E-3 F-1	TP3 TP4 TP5 TP7 TP8 TP9 TP11 TP12	F-2 A-1 A-3 F-2 A-1 A-2 F-4 B-4 A-4
LP1	F-3	TP13	A-4
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q23 Q24 Q25 Q26 Q31 Q32 Q33 Q34	D-2 C-3 D-4 E-4 D-4 E-1 E-1 E-2 A-4 A-4 B-4 A-2 F-3 F-3 F-2 F-2 F-2 D-2 D-2 D-4		





PR-148	(1-636-645-11)		
CN1 CN2 CN3	E-1 A-1 E-1	RV1 RV2 RV3	A-2 A-1 F-3 F-2
DL1 DL2 DL3	B-3 B-2 B-4	RV4 RV5 RV6 RV7	F-3 F-4 F-4
D3 D4 D6 D7 D8 D9 D10	E-4 E-2 F-3 F-2 F-4 F-1 E-3	RV8 RV9 RV10 RV11 RV12 RV13 RV14 RV15 RV16	F-4 A-2 A-3 A-3 F-4 E-4 A-4 A-4
E1	A-4.	RV17 RV18	D-4 E-4
IC1 IC2 IC3 IC4 IC5	B-2 C-3 C-3 C-4 E-1	RV19 RV20 RV21 RV22	D-4 C-4 C-4 C-4
IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13	E-1 B-4 F-1 E-3 E-3 E-4 E-3 F-1	TP3 TP4 TP5 TP7 TP8 TP9 TP11 TP12 TP13	F-2 A-1 A-3 F-2 A-1 A-2 F-4 B-4 A-4
LP1	F-3	1713	A-4
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q31 Q32 Q33 Q34	D-2 C-3 D-4 E-4 D-4 E-3 E-1 E-2 A-4 A-2 F-3 F-3 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2		

PR-148 (1-636-645-11)

A-1 E-1

> B-3 B-2 B-4

E-4 E-2 F-3 F-2 F-4 F-1 E-3

A-4

B-2 C-3 C-4 E-1 E-1 B-4 F-1 E-3 E-3 E-4 E-3 F-1

F-3

D-2 C-3 D-4 E-4 E-4 E-3 E-1 E-1 E-2 A-4 A-2 F-3 E-4 F-2 F-2 D-2 A-2 D-2 RV3

RV11 RV12 RV13 RV14 RV15 RV16

RV17 RV18

RV19 RV20

RV21 RV22

TP3 F-2
TP4 A-1
TP5 A-3
TP7 F-2
TP8 A-1
TP9 A-2
TP11 F-4
TP12 B-4
TP13 A-4

F-2 F-3 F-4 F-4 A-3 A-3 F-4 A-4 A-4 D-4 C-4 C-4

CN2 CN3

DL2 DL3

D3 D4 D6 D7 D8 D9 D10

E1

IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13

LP1

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q10 Q11 Q12 Q23 Q24 Q25 Q26 Q31 Q32 Q33 Q33 Q34

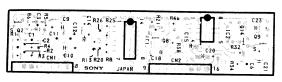
1-636-645-11 SOLDERING SIDE

В

VA-105R BOARD

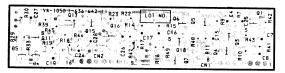


1-636-641-11 COMPONENT SIDE

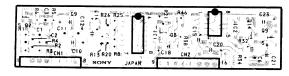


1-636-641-11 SOLDERING SIDE

VA-105G BOARD

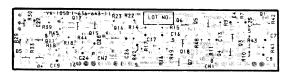


1-636-642-11 COMPONENT SIDE

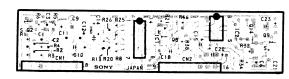


1-636-642-11 SOLDERING SIDE

VA-105B BOARD



1-636-643-11 COMPONENT SIDE

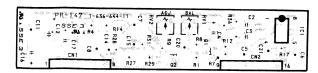


1-636-643-11 SOLDERING SIDE

PR-147R/G/B BOARD



1.636-644-11 COMPONENT SIDE



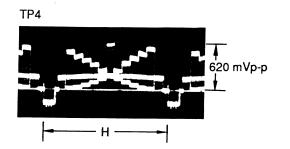
1-836-944-11 SOLT/ERING SIDE

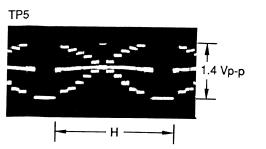
PR-148 BOARD

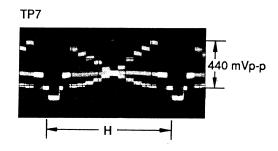
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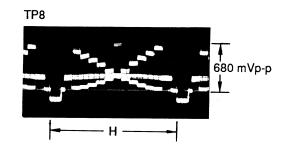
- All voltage are DC, measured with a digital voltmeter.
 All waveforms are taken and DC voltage is measured in condition below.
 - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.
 - GAIN : 0 dB
 - WHITE BAL : PRE
 - ABL : OFF
 - SHUTTER : OFF
 - ZEBRA : OFF
 - VF MARKER : OFF PHASE : 0°
 - BARS : OFF

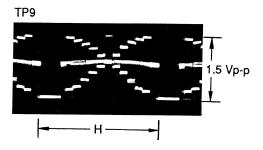
TP3

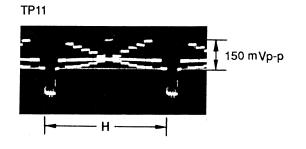


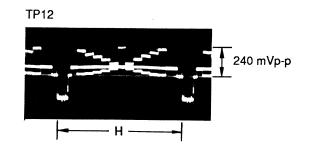


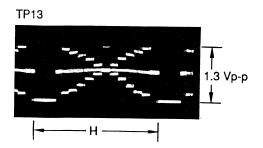




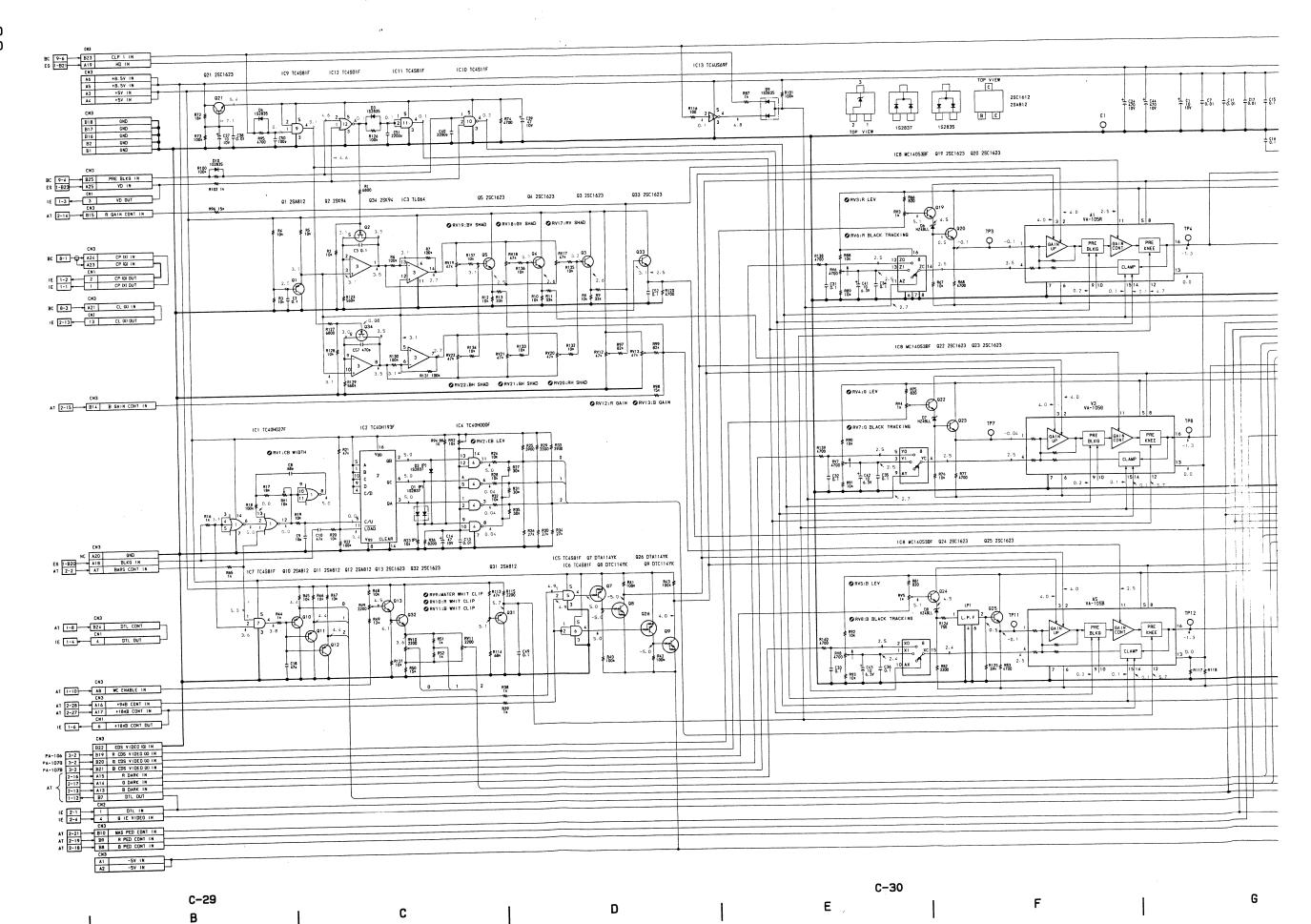




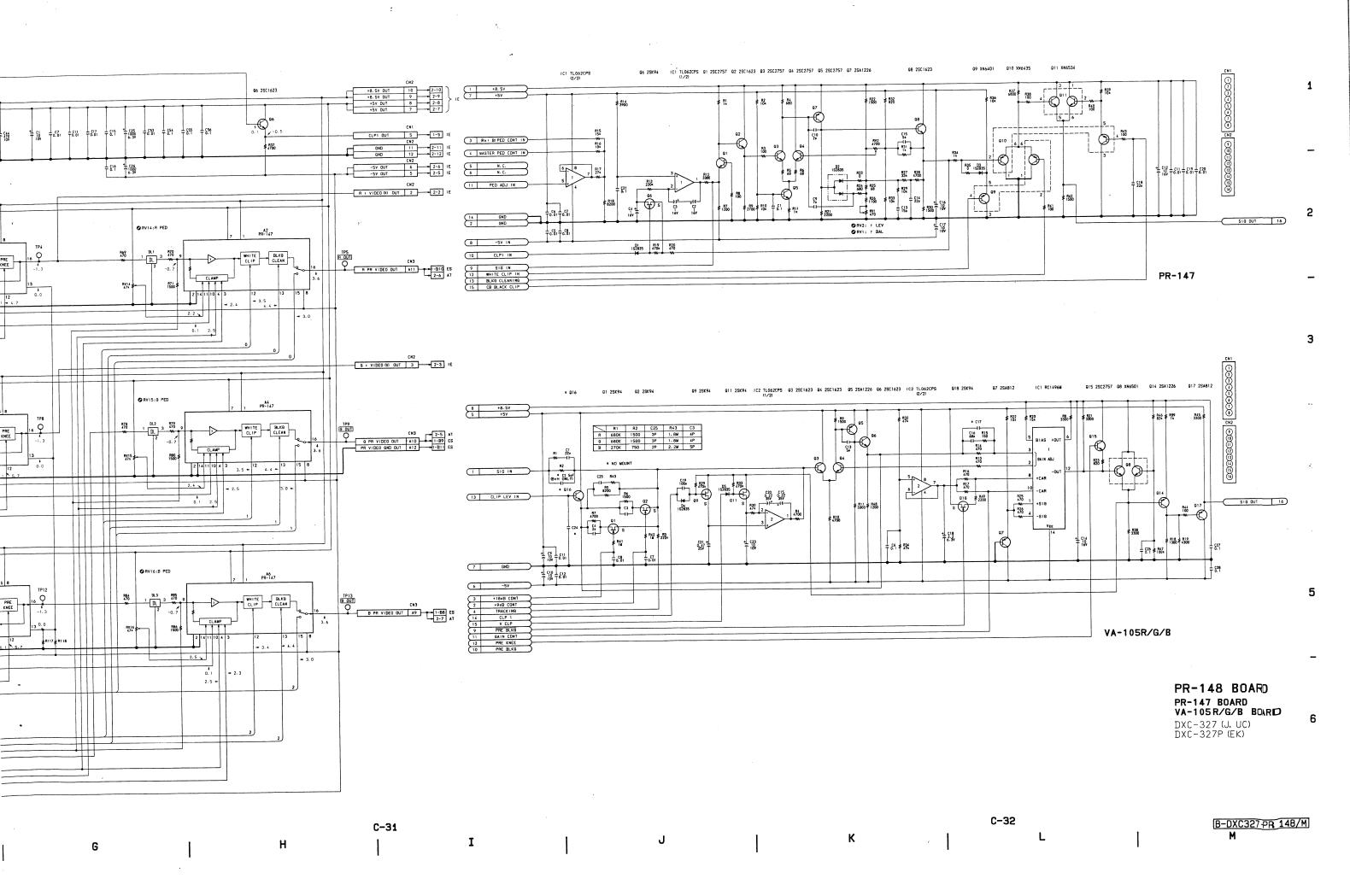


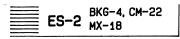


PR-148 BOARD VA-105R/G/B BOARD PR-147R/G/B BOARD



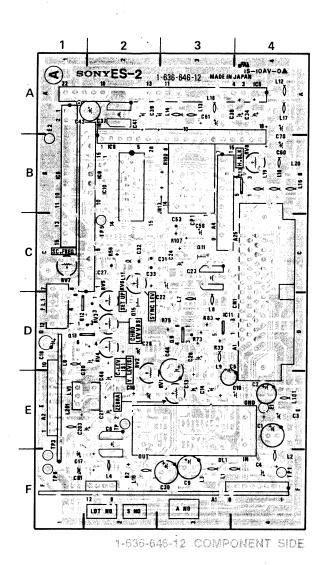
DXC-327 (J, UC) DXC-327P (EK)

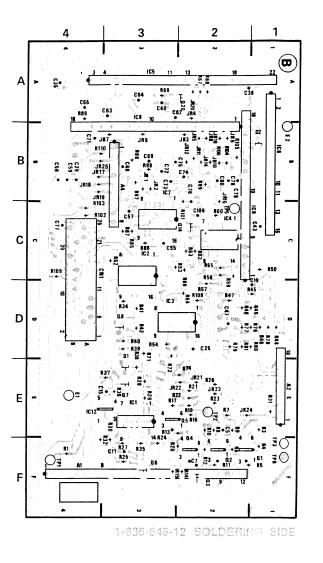




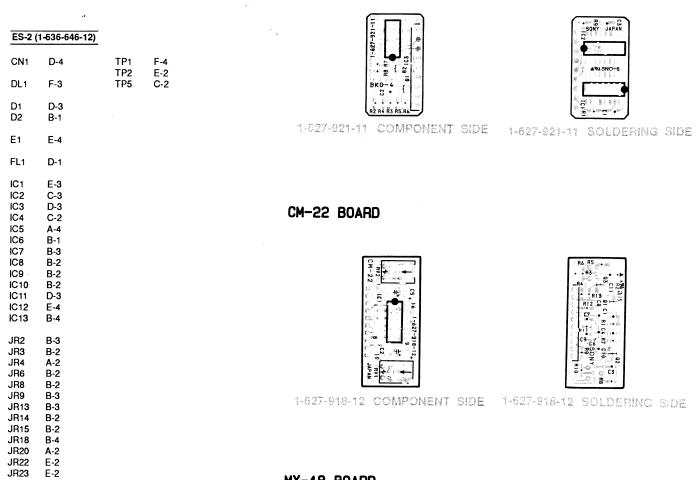
ES-2 BOARD

ES-2 (1-636-64	16-12)		
CN1	D-4		TP1	F-4
DL1	F-3		TP2 TP5	E-2 C-2
D1 D2	D-3 B-1			
E1	E-4			
FL1	D-1			
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13	E-3 C-3 D-3 C-2 A-4 B-1 B-3 B-2 B-2 B-2 D-3 E-4 B-4			
JR2 JR3 JR4 JR6 JR8 JR9 JR13 JR14 JR15 JR18 JR20 JR22 JR23	B-3 B-2 B-2 B-3 B-3 B-2 B-4 A-2 E-2			
LV1	E-1			
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q11 Q12 Q13 Q14 Q15 Q20	F-1 F-2 F-2 F-2 E-2 F-3 D-3 C-3 D-1 D-1 C-2 D-2 A-2			
RV1 RV2 RV3 RV4 RV5 RV6 RV7 RV8	E-3 D-2 D-2 D-2 C-2 C-2 C-1 B-4			

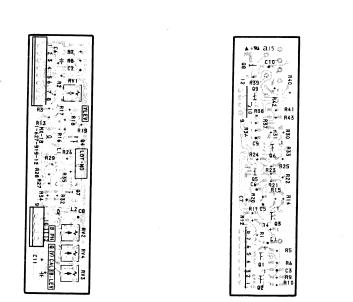




BKG-4 BOARD (NTSC ONLY)



MX-18 BOARD



1-827-919-12 COMPONENT SIDE 1-627-919-12 SOLDERING SIDE

LV1

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q11 Q12 Q13 Q14 Q15 Q20

RV1 RV2 RV3 RV4 RV5 RV6 RV7 RV8 E-1

F-1 F-2 F-2 F-2 E-3 E-3 D-3 C-3 D-1 D-1 C-2 D-2 A-2

E-3 D-2 D-2 D-2 C-2 C-2 C-1 B-4

ES-2 BOARD

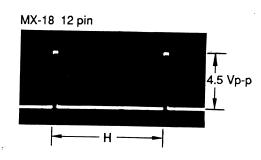
• BARS

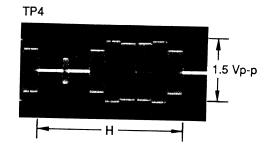
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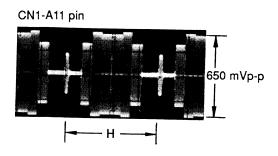
- All voltage are DC, measured with a digital voltmeter.
 All waveforms are taken and DC voltage is measured in condition below.
 - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.
- GAIN : 0 dB • WHITE BAL : PRE • ABL : OFF • SHUTTER : OFF ZEBRA : OFF VF MARKER: OFF PHASE

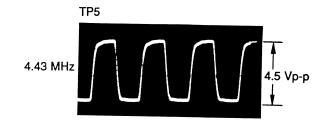
: 0°

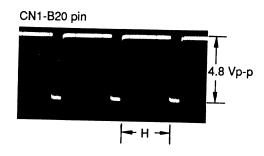
: ON

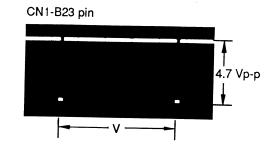


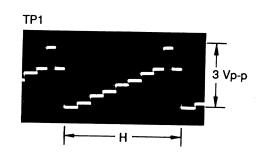


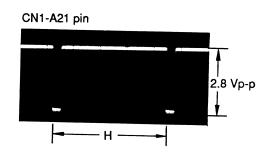


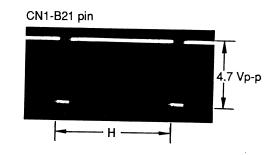


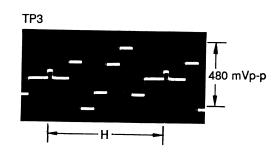


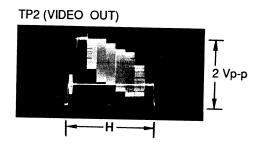


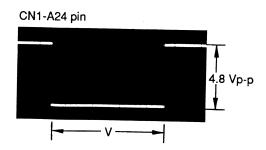


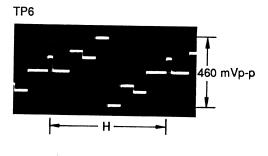


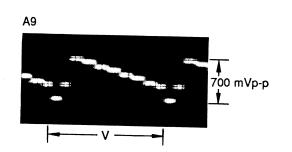




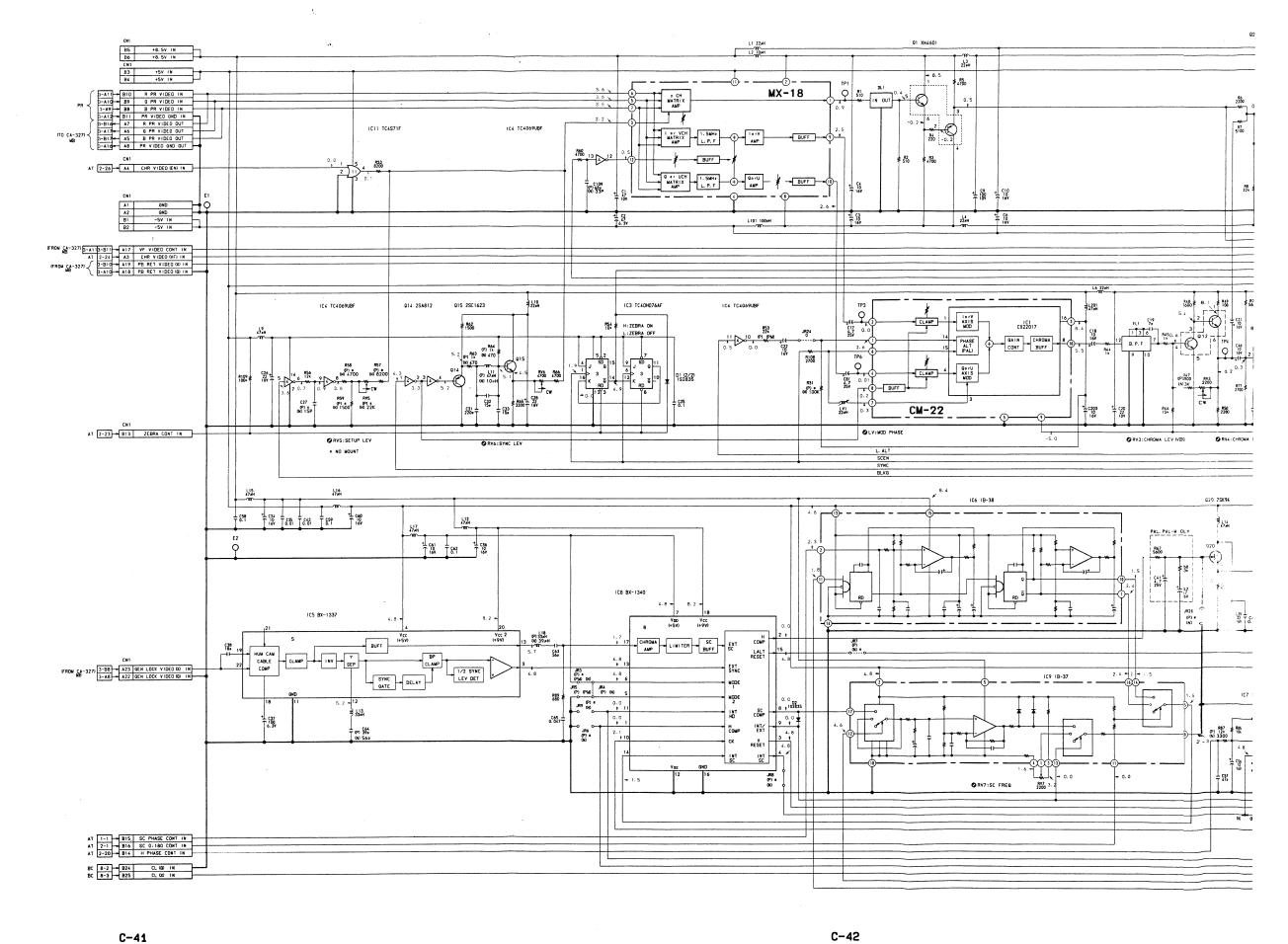








ES-2 BOARD BKG-4 BOARD CM-22 BOARD MX-18 BOARD



DXC-327 (J, UC) DXC-327P (EK)

B

С

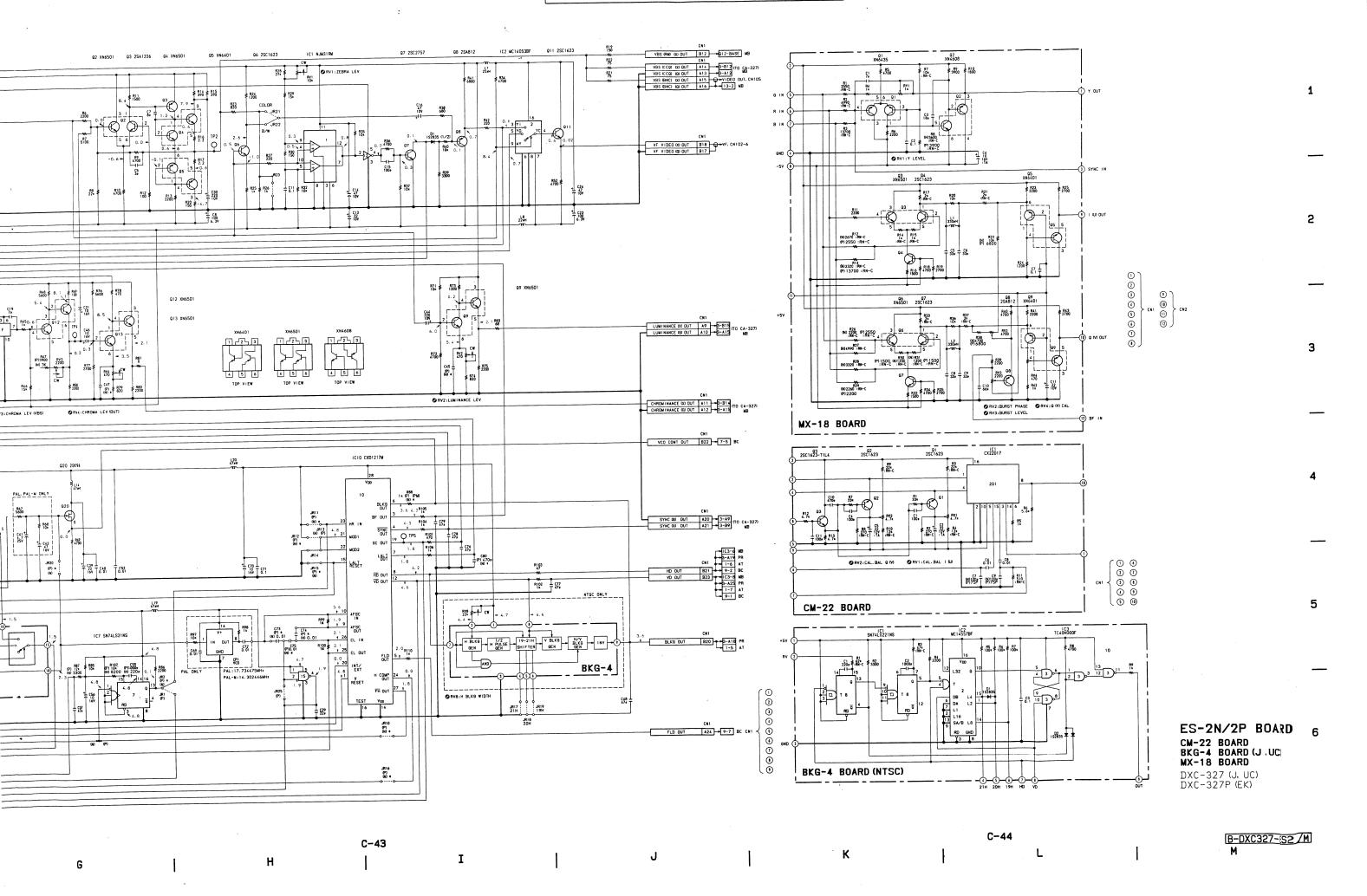
D

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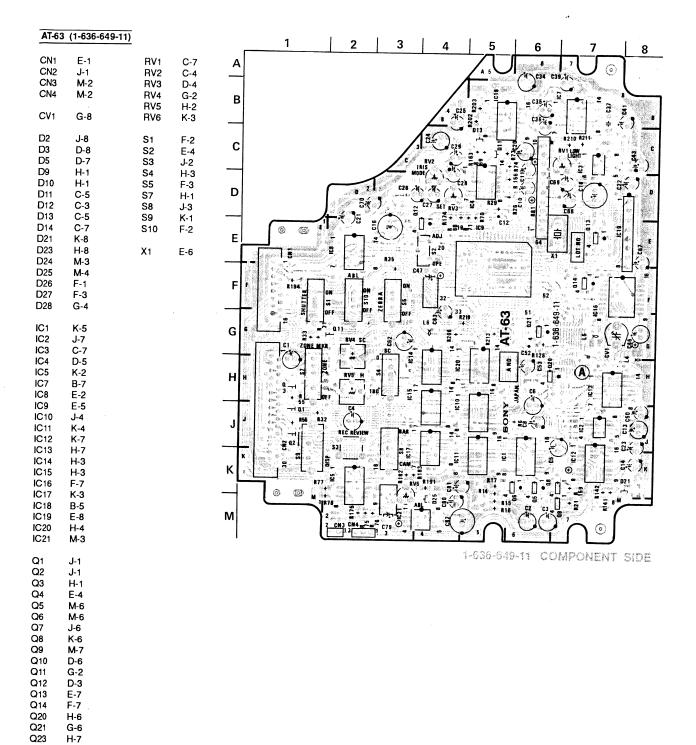
G

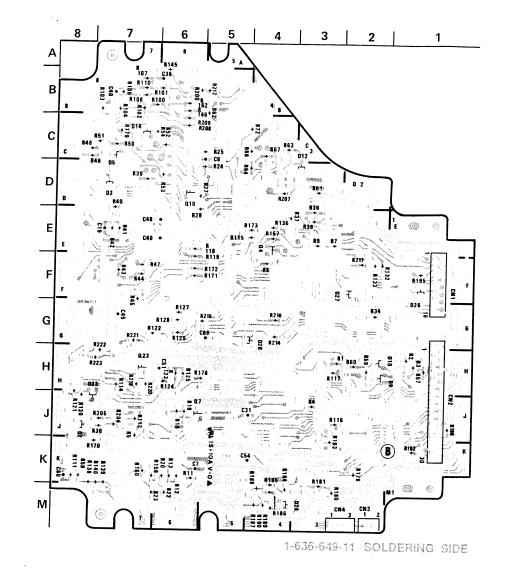


AT-63 BOARD

RB1

D-6





AT-6	3 (1-636	-649-11)		
CN1 CN2 CN3 CN4	E-1 J-1 M-2 M-2		RV1 RV2 RV3 RV4 RV5	C-7 C-4 D-4 G-2 H-2
CV1	G-8		RV6	K-3
D2 D3 D5 D9 D10 D11 D12 D13 D14 D21 D23 D24 D25 D26 D27 D28	J-8 D-8 D-7 H-1 C-5 C-3 C-5 C-7 K-8 M-3 M-4 F-1 F-3 G-4		\$1 \$2 \$3 \$4 \$5 \$7 \$8 \$9 \$10	F-2 E-4 J-2 H-3 F-3 H-1 J-3 K-1 F-2
IC1 IC2 IC3 IC4 IC5 IC7 IC8 IC9 IC10 IC11 IC12 IC13 IC14 IC15 IC16 IC17 IC18 IC19 IC20 IC21	K-5 J-7 C-7 D-5 K-2 E-5 J-4 K-7 H-3 H-3 F-7 K-3 B-8 H-4 M-3			
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q13 Q14 Q20 Q21 Q23	J-1 J-1 E-4 M-6 M-6 K-6 M-7 D-6 G-2 D-3 E-7 F-7 H-6 G-6 H-7			
RB1	D-6			

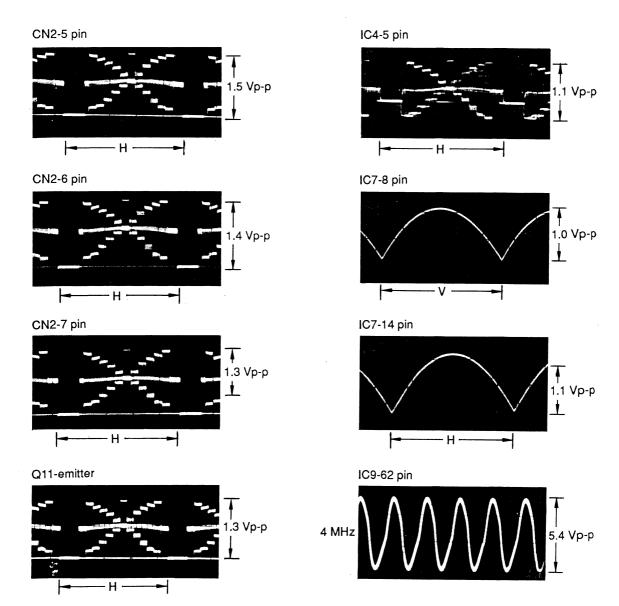
AT-63 BOARD

- NOTE:
 1. All voltage are DC, measured with a digital voltmeter.
- 2. All waveforms are taken and DC voltage is measured in condition below.
 - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.

• GAIN : 0 dB • WHITE BAL : PRE : OFF • ABL • SHUTTER : OFF : OFF • ZEBRA • VF MARKER: OFF : 0°

: OFF

 PHASE BARS

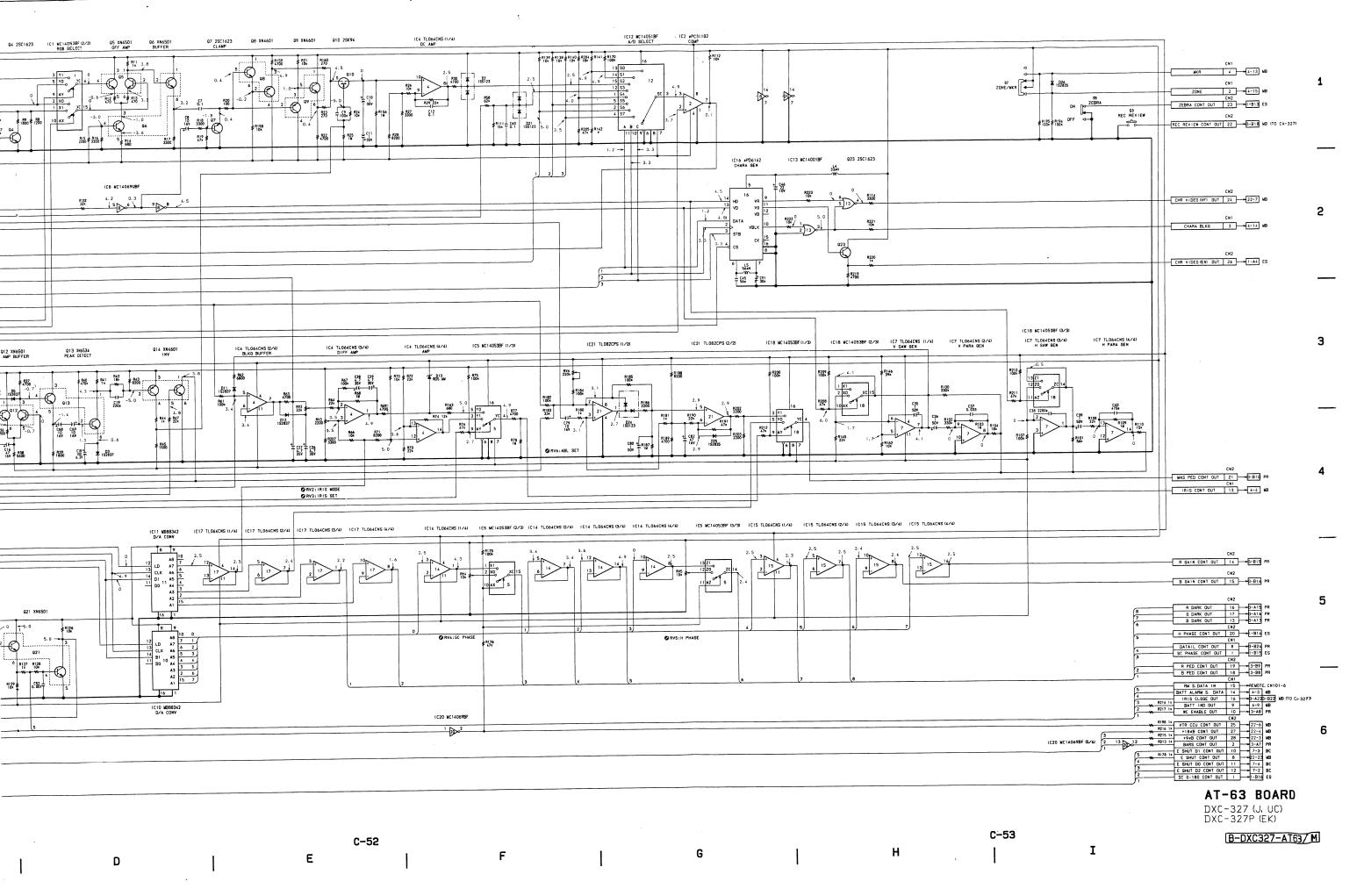


AT-63 BOARD R139 R138 R140 R204 R141 R170 R21 R160 10x 270 + C1 + C13+ C20+ C24+ C62+ C81 164 7 164 7 164 7 164 7 164 + C2 + C21 + C23 + C25 + C34 + C43 + C53 + C67 T6.3V T6.3V T6.3V T6.3V T6.3V T6.3V T6.3V IC8 MC14069UBF R132 4.2 0.3 7 8 8 4.5 MB 10-1 ¥R193 LM2903M (1/2) Q14 XN4601 Q11 2SC1623 IC3 LM2903M (2/2) Q12 XN6501 Y BUFF COMP Y AMP BUFFER Q13 XN6534 PEAK DETECT IC4 TLO64CNS (2/4) BLKG BUFFER # R70 ≢ R72 R75 100≥ ₹8188 8200 D13 RD5.6M R182 100k W R183 33k DATA MEMORY IC19 M6W80011L R36 2200 ≢ 6 R35 C16 1500 47 ₹ R38 16V ₹ 5600 ORV3: IRIS SET R120 ≸ ★ D23 22k ≸ ★ 152837 O RVS:H PHASE

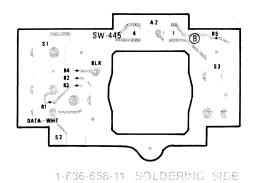
DXC-327 (J, UC) DXC-327P (EK) C-52 C-51 В

IC9 HD6305Y0E17F WICRO COMPUTER

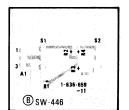
IC20 MC14069BF



SW-445 BOARD



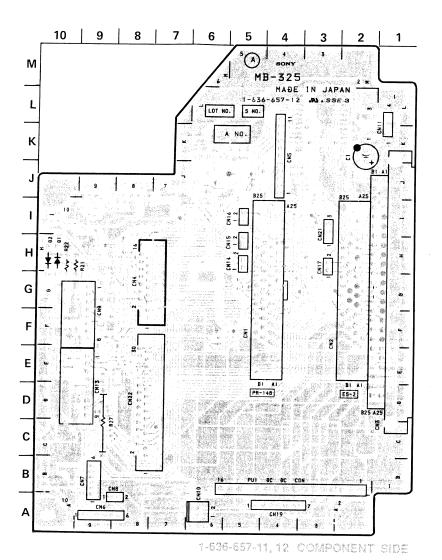
SW-446 BOARD



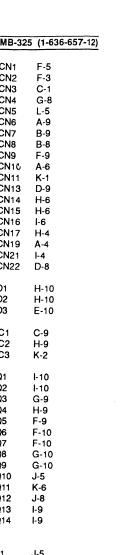
1-636-659-11 SOLDERING SIDE

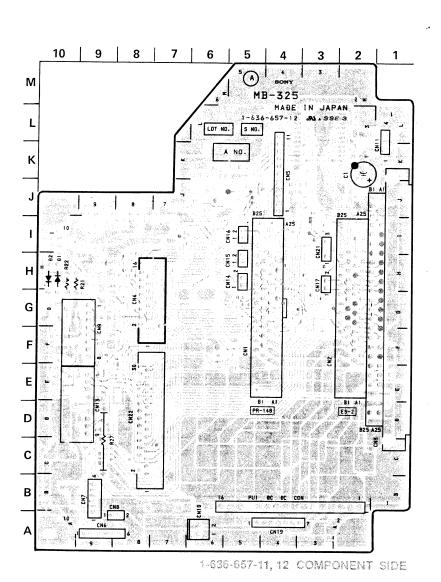
MB-325 BOARD

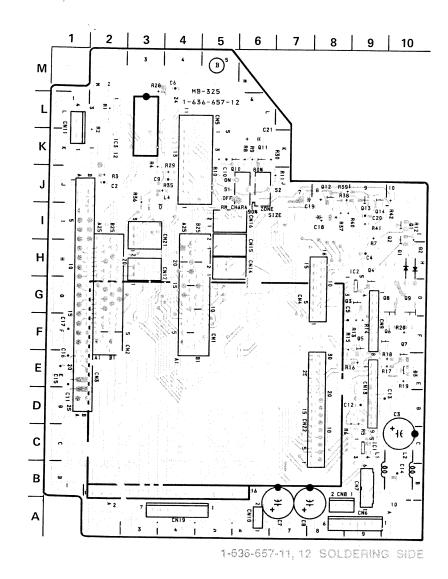
MB-325 (1-636-657-12)					
CN1	F-5				
CN2	F-3				
CN3	C-1				
CN4	G-8				
CN5	L-5				
CN6	A-9				
CN7	B-8				
CN8	F-9				
CN10	A-6				
CN11	K-1				
CN13	D-9				
CN14	H-6				
CN15	H-6				
CN16	H-6				
CN17	H-4				
CN19	A-4				
CN21	I-4				
D1	H-10				
D2	H-10				
D3	E-10				
IC1	C-9				
IC2	H-9				
IC3	K-2				
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14	I-10 I-10 G-9 H-9 F-10 F-10 G-10 J-5 K-6 J-8 I-9				
S1	J-5				
S2	J-7				



1B-325 BOARD







MB-325 (1-636-657-12) CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10 CN11 CN13 CN14 CN15 CN16 CN17 F-5 F-3 C-1 G-8 L-5 A-9 B-8 F-9 A-6 K-1 D-9 H-6 H-6 H-4 CN19 A-4 CN21 1-4 CN22 D-8 D1 D2 H-10 H-10 D3 E-10 IC1 C-9 IC2 IC3 H-9 K-2 Q1 I-10 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 I-10 G-10 J-5 K-6 J-8 I-9 I-9 Q14 S1 S2

MB-325 FRAME SW-445, SW-446 SW-445, SW-446 FRAME

FRAME CNIOI
REMOTE
, (FEMALE)
-WIRING SIDE-CNIDA

OPTION

OFEMALE)

-WIEING SIDE
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3 CN102 VF (FEMALE) -WIRING SIDE-MB-325 BOARD CN103 LENS -WIRING SIDE-SW-445 BOARD CH105
VIDEO DUT

GNC)

99
90
9 2 VPS GNC) GD DUT 2-A16
1 VPS GNC) GD DUT 2-A16
2 VPS GNC) GD DUT 2-A15
CH6
1 1 VF VIDEO CONT IN
3 2 VPT START/STOP IN
4 3 2 VPT START/STOP IN
4 3 CGMP-RH7 NIGS-104
7 4 IRIS CONT DUT
7 2 5 POWER +12V DC DUT
0 6 POWER +12V DC GND
CN7
0 1 POWER +12V DC GND
- OWNER +12V DC GND SW-446 BOARD PA-107 (B) E SHUT CONT IN
E SHUT DZ CONT IN
E SHUT DI CONT IN
E SHUT DO CONT IN
VCO CONT IN CP (X) DUT CP (G) DUT CL (X) DUT CL (G) DUT 612 6.1 BC-22 -----TG-72 ! 1 150 OAL IN 187 OF IN 187 PA-106 (R) 2SC1623 2SC1623 *** 9 7 -10.5V OUT

CKS

3 1 NO OUT

2 2 VD OUT

1 3 VCC CONT OUT 2-822)

1 4 4 CLP 1 IN

1 5 P BLKG IN

6 6 CLP 3 IN

7 7 FLD OUT

7 10 E SHUT DIC CONT OUT 22-20

6 11 E SHUT DIC CONT OUT 22-21

6 11 E SHUT DIC CONT OUT 22-21

6 11 E SHUT DIC CONT OUT 22-21

CK21

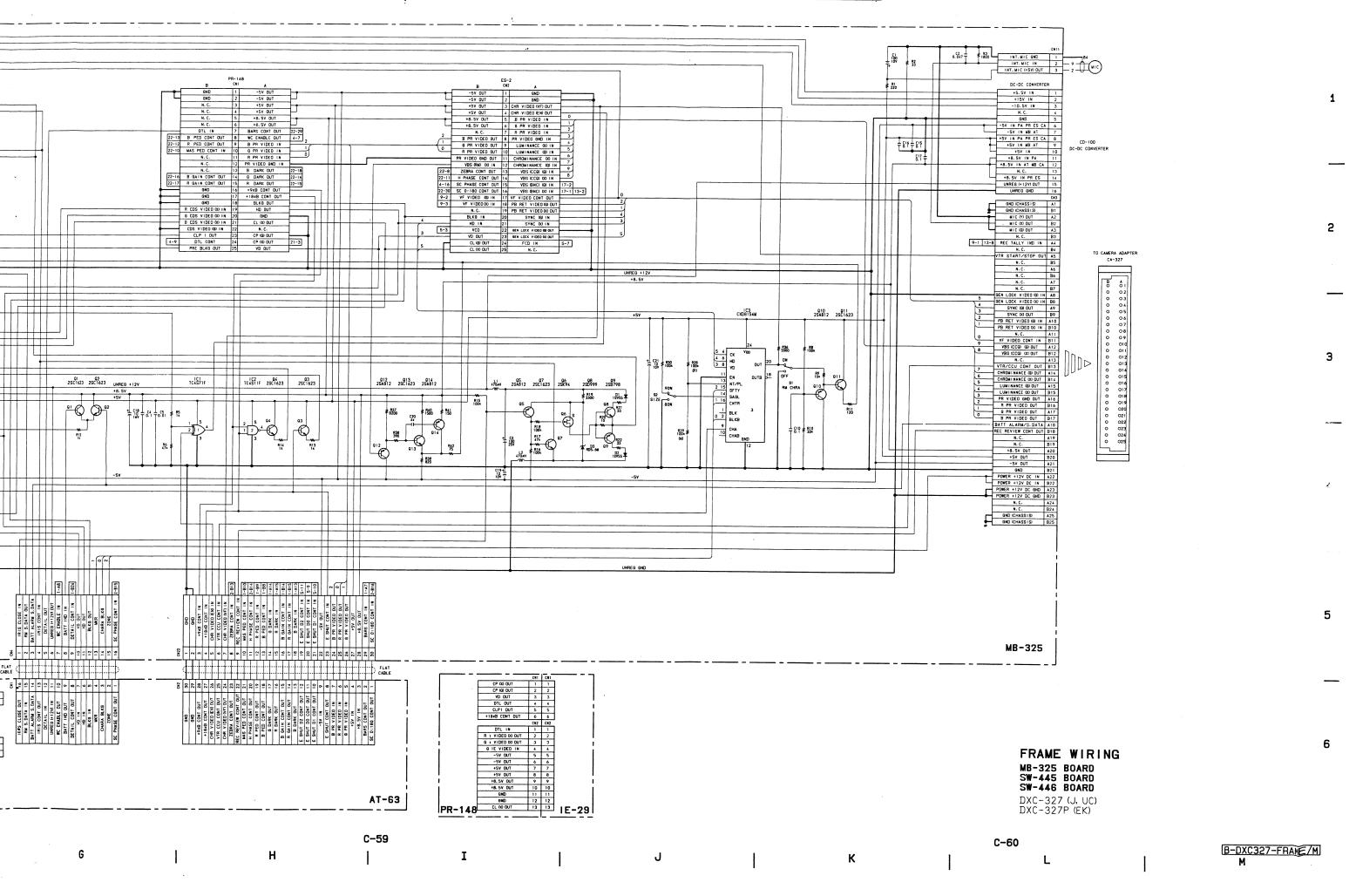
CK21

2 CP (G) IN

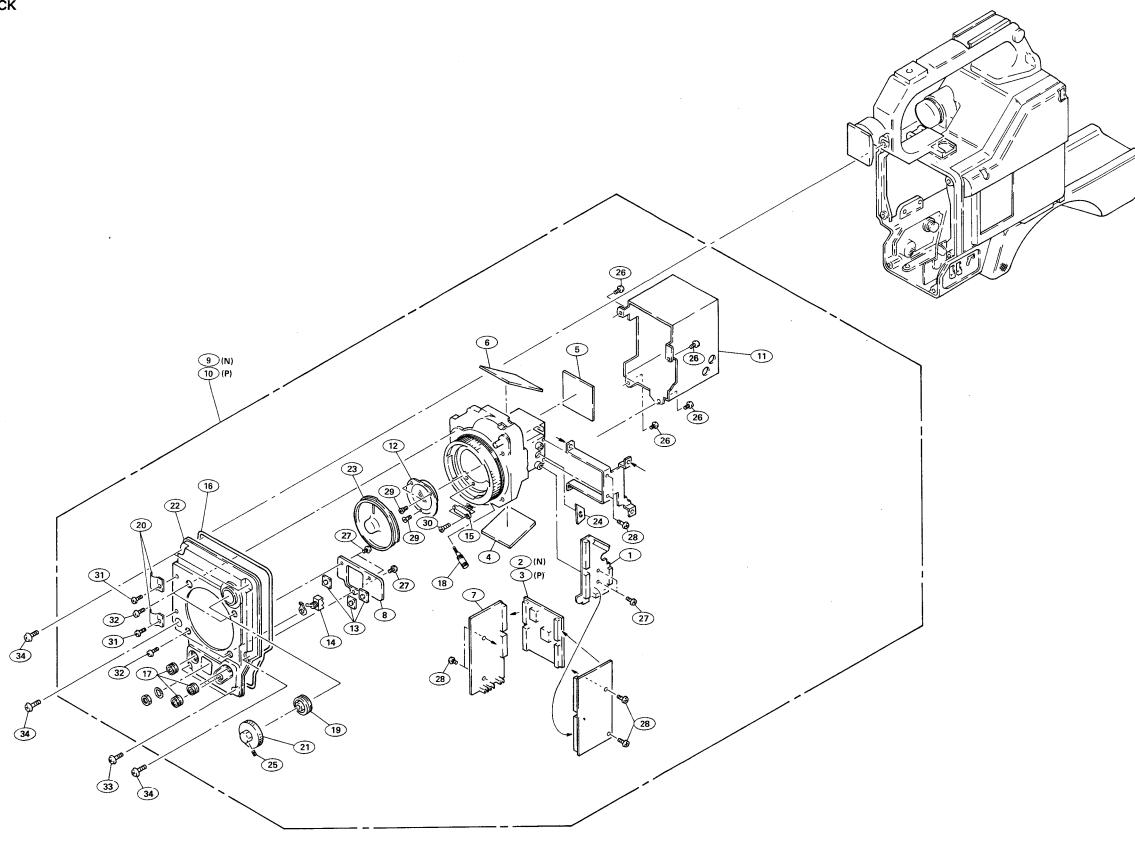
1 AZ4 | N | 100 | N | R27 1 C7 + C8 T 25V T 25V X H2 DUT +AV OUI R6 DUT R6 DUT R7 2 RN S.DATA.OUT
2 RN S.DATA.OUT
3 BNTT.AACHOR S.DATA.
4 RN S.COM. IN
5 DETALL.OUT
6 UNREG 11.20 OUT
7 TO C. EMBEL IN 1-REA
9 DETALL.CONT IN 1-REA
10 TO OUT R SHD 00 OUT R SHD 00 OUT SHP OUT 6 SHD (X) DUT 6 SHD (8) DUT SHP DUT SHD = DUT B SHD (X) OUT B SHD (0) OUT SHP OUT S101 WHT 8 - 0 - 0 - 0 - BLK 9 -| GND | 1 | VTR TRIG OUT | 2 | GND | 3 | W/B SW OUT | 4 | UP ON 🕂 sı # R1 = R2 = R3 = R4 47k = 10k = 10k = 47k

SW-445 SW-446 DXC-327 (J, UC) DXC-327P (EK) C-57 C-58 В D Ε G

DOWN/OFF (s2

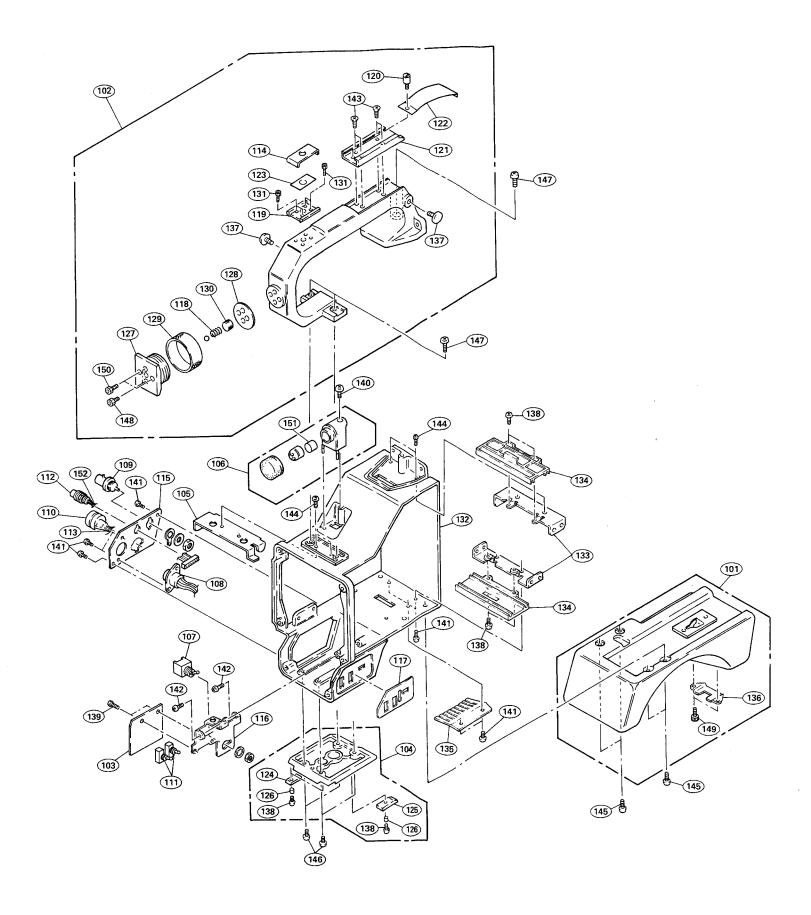






DXC-327 (UC) DXC-327P (EK)

CHASSIS (1) BLOCK



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SP Description
                     Part No.
No.
           ⚠ 1-546-078-11 s CRT/DY ASSY
1-589-128-11 o MAIN BOARD (for DXF-501)
1-589-128-21 o MAIN BOARD (for DXF-501CE)
1-589-129-11 o SW BOARD (for DXF-501)
1-589-129-21 o SW BOARD (for DXF-501CE)
                                                                                                                                                                                                      9-994-826-01 o STOPPER, PWB
                                                                                                                                                                                 56
57
                                                                                                                                                                                                      9-994-827-01 o COLLER
9-997-916-01 o MIRROR
9-997-917-01 o SPACER
                                                                                                                                                                                 58
                                                                                                                                                                                 59
                                                                                                                                                                                                      9-997-918-01 o RING, LOCK
   5
                     2-277-453-00 s KNOB, CONTROL
2-277-456-00 s COLLER, STOPPER
2-277-457-00 s KNOB, STOPPER
2-277-466-01 s SPRING, COMPRESSION
2-277-468-01 o PLATE, ORNAMENTAL, CAMERA, SHOE
                                                                                                                                                                                                      9-997-919-01 o HOLDER A, LENS
9-997-920-01 o HOLDER B, LENS
9-997-921-01 o RING, ADJUSTMENT
9-997-922-01 o LID
    6
7
                                                                                                                                                                                 61
62
63
   8
    9
                                                                                                                                                                                                       9-997-923-01 s EYECUP
                                                                                                                                                                                 64
 10
                                                                                                                                                                                                      9-997-924-01 o RING, RUBBER
9-997-925-01 o BALL, STEEL
3-680-417-01 s LUPE B, VF
9-998-810-01 o CASE, TOP
1-230-075-00 s RES, VAR, METAL 2K "CONTR" "BRIGHT"
                      2-381-461-02 s PIN, BLIND
2-381-462-01 s PIN
2-381-468-01 s PIN, STOPPER
2-381-472-02 o STOPPER
2-832-007-00 s BUSHING (K), INSULATING
                                                                                                                                                                                 66
67
 12
13
                                                                                                                                                                                  68
 14
16
                                                                                                                                                                                  69
                       3-657-700-00 s BRACKET, ACCESSORY
3-672-213-01 o SHEET, ADHESIVE
3-680-604-01 o PLATE, BLIND
3-680-605-00 o CAP, SLIDE
3-688-709-01 s NUT, PLATE, SHOE
                                                                                                                                                                                                      1-570-845-11 s SWITCH, SLIDE
"TALLY ON/OFF" "PEAKING ON/OFF"
9-994-802-01 s DIODE SLH-56VT
                                                                                                                                                                                  70
  18
19
20
                                                                                                                                                                                  71
  21
                       3-703-037-00 s INSULATOR, TO-220
7-621-255-25 s SCREW +P2X4
7-621-255-52 s SCREW +P2X8
7-621-773-95 s SCREW +B2.6X6
7-621-775-00 s SCREW +B2.6X3
  24
25
26
27
28
                       7-624-102-04 s STOP RING, TYPE E 7-627-552-58 s SCREW, PRECISION +P1.7X5 7-627-553-28 s SCREW, PRECISION +P2X2.5 7-627-553-68 s SCREW, PRECISION +P2X6 7-682-248-09 s SCREW +K3X8
    \bar{3}\bar{2}
                        7-682-550-09 s SCREW +B3X12
7-685-131-19 s SCREW +BTP2.6X4
7-688-008-04 s WASHER
8-729-385-82 s TRANSISTOR 2SB858
9-994-797-01 s CABLE, VF
   35
36
    37
    38
                         9-994-811-01 o SPRING, PLATE
9-994-812-01 o INSULATOR
    41
                        9-994-813-01 0 LABEL, SWITCH
9-994-814-01 0 CASE, BOTTOM
9-994-815-01 0 HOLDER T, OUTSIDE
    43
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                        9-994-816-01 o PLATE, NUT
9-994-817-01 o MOLT
9-994-818-01 o HOLDER B, OUTSIDE
9-994-819-01 o PIN, LOCK
9-994-820-01 o RING, SLIDE
    45
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     47
     48
     49
                         9-994-821-01 o NUT, PLATE, CASE
9-994-822-01 o GUIDE, VF SLIDE
9-994-823-01 o LABEL, SLIDE
9-994-824-01 o STOPPER
9-994-825-01 o RUBBER, STOPPER
    51
52
```

```
SP Description
                                                          Ref. No. Part No.
                                                                                  SP Description
Ref. No. Part No.
                                                           1-216-083-00
                                                                             RES, CHIP
RESISTOR, CHIP
                                                                          S
                                                                             RES, CHIP
                                                           1-216-085-00
                                                                                          33k
                                                                          S
                                                           1-216-087-00
                                                                                         39k
                                                                          S
0 - 3.3M (E12) +-5% 1/10W
                                                                             RES, CHIP
                                                           1-216-089-00
                                                                          S
                                                                                          47k
                                                           1-216-091-00
                                                                             RES, CHIP
                                                                                          56k
                                                                          S
1-216-295-00
                                    5% 1/10W
1-216-298-00
1-216-302-00
1-216-304-00
                               2.2
2.7
                                    5% 1/10W
                   RES, CHIP
                                                           1-216-093-00
                                                                             RES, CHIP
                                                                                          68k
                                                                          S
               S
                                                                                         82k 5% 1/10W
100k 5% 1/10W
                                    5% 1/10W
                                                           1-216-095-00
                   RES, CHIP
                                                                             RES, CHIP
               S
                                                                          S
                               3.3
                   RES, CHIP
                                     5% 1/10W
                                                           1-216-097-00
                                                                             RES, CHIP
               s
                                                                          S
                                                                             RES, CHIP
                   RES, CHIP
                               3.9
                                     5% 1/10W
                                                           1-216-099-00
                                                                                          120k 5% 1/10W
1-216-306-00
                                                                          S
                S
                                                                             RES, CHIP
                                                           1-216-101-00
                                                                                          150k 5% 1/10W
1-216-308-00
               s
                   RES, CHIP
                               4.7
                                     5% 1/10W
                   RES, CHIP
                                                           1-216-103-00
1-216-309-00
                               5.6
                                     5% 1/10W
                                                                          S
                                                                             RES, CHIP
                                                                                          180k 5% 1/10W
                s
1-216-311-00
1-216-313-00
                                     5% 1/10W
                                                                                         220k 5% 1/10W
270k 5% 1/10W
                   RES, CHIP
                                                           1-216-105-00
                               6.8
                                                                             RES, CHIP
               S
                                                                          S
                               8.2
                                     5% 1/10W
                                                           1-216-107-00
                   RES, CHIP
                                                                             RES, CHIP
                S
                                                                          S
                                                                             RES, CHIP
RES, CHIP
                   RES, CHIP
                                     5% 1/10W
                                                           1-216-109-00
                               10
                                                                                          330k 5% 1/10W
1-216-001-00
                                                                          S
                                                                                          390k 5% 1/10W
                                                           1-216-111-00
                                                                          S
                   RES, CHIP
                                     5% 1/10W
1-216-003-00
1-216-005-00
                   RES, CHIP
                               15
                                     5% 1/10W
                                                           1-216-113-00
                                                                                          470k 5% 1/10W
                s
                                                                          S
                                                                             RES, CHIP
                                                           1-216-115-00
                   RES, CHIP
                               18
                                     5% 1/10W
                                                                             RES, CHIP
                                                                                          560k 5% 1/10W
1-216-007-00
                s
                                                                          S
                               22
                                     5% 1/10W
                                                           1-216-117-00
1-216-009-00
                   RES, CHIP
                                                                             RES, CHIP
                                                                                          680k 5% 1/10W
                                                                          S
                s
                               27
                                                           1-216-119-00
                                                                             RES, CHIP
                   RES, CHIP
                                     5% 1/10W
                                                                                         820k 5% 1/10W
1-216-011-00
                                                                          S
                                                                             RES, CHIP
                                                           1-216-121-00
                                                                                          1.0M 5% 1/10W
                   RES, CHIP
                                     5% 1/10W
1-216-013-00
1-216-015-00
                   RES, CHIP
                               39
                                     5% 1/10W
                                                           1-216-123-00
                                                                             RES, CHIP
                                                                                          1.2M 5% 1/10W
                                                                          S
                   RES, CHIP
                                                                             RES, CHIP
1-216-017-00
                               47
                                     5% 1/10W
                                                           1-216-125-00
                                                                                          1.5M 5% 1/10W
                s
                                                                          S
1-216-019-00
                               56
                                     5% 1/10W
                                                           1-216-127-00
                                                                          S
                                                                                         1.8M 5% 1/10W
                S
                                                           1-216-129-00
                   RES, CHIP
                               68
                                     5% 1/10W
                                                                             RES, CHIP
                                                                                          2.2M 5% 1/10W
1-216-021-00
                                                                          S
                                                                                          2.7M 5% 1/10W
                                                           1-216-131-00
                                                                             RES, CHIP
                                                                          S
                                     5% 1/10W
5% 1/10W
                   RES, CHIP
                               82
1-216-023-00
                s
                               100
                   RES, CHIP
1-216-025-00
                                                           1-216-133-00 s RES, CHIP 3.3M 5% 1/10W
                S
1-216-027-00
                S
                   RES, CHIP
                               120
                                     5% 1/10W
1-216-029-00
                   RES, CHIP
                               150
                                     5% 1/10W
                s
                   RES, CHIP
1-216-031-00
                                     5% 1/10W
                               220
270
                   RES, CHIP
                                     5% 1/10W
1-216-033-00
                S
                   RES, CHIP
                                     5% 1/10W
1-216-035-00
                S
1-216-037-00
                S
                   RES, CHIP
                               330
                                     5% 1/10W
1-216-039-00
                   RES, CHIP
                               390
                                     5% 1/10W
                s
                   RES, CHIP
                               470
                                     5% 1/10W
1-216-041-00
                   RES, CHIP
                               560
                                     5% 1/10W
1-216-043-00
                S
                   RES, CHIP
                               680
                                     5% 1/10W
1-216-045-00
                S
                                    5% 1/10W
5% 1/10W
1-216-047-00
                   RES, CHIP
                               820
                s
                   RES, CHIP
1-216-049-00
                S
                               1k
1-216-051-00
                   RES, CHIP
                               1.2k 5% 1/10W
1-216-053-00
                   RES, CHIP
                               1.5k 5% 1/10W
                s
                               1.8k 5% 1/10W
2.2k 5% 1/10W
                   RES, CHIP
1-216-055-00
                S
1-216-057-00
                S
                               2.7k 5% 1/10W
                   RES, CHIP
1-216-059-00
                S
                               3.3k 5% 1/10W
1-216-061-00
                   RES, CHIP
                               3.9k 5% 1/10W
1-216-063-00
                   RES, CHIP
                S
                   RES, CHIP
                               4.7k 5% 1/10W
1-216-065-00
                S
                               5.6k 5% 1/10W
                   RES, CHIP
1-216-067-00
                S
1-216-069-00
                   RES, CHIP
                               6.8k 5% 1/10W
                S
                   RES, CHIP
                               8.2k 5% 1/10W
1-216-071-00
                               10k
1-216-073-00
                   RES, CHIP
                s
                   RES, CHIP
                               12k
                                     5% 1/10W
1-216-075-00
                S
                                    5% 1/10W
5% 1/10W
1-216-077-00
                   RES, CHIP
                               15k
                S
                   RES, CHIP
                               18k
1-216-079-00
                S
```

1-216-081-00

S

RES, CHIP

22k

5% 1/10W

5% 1/10W

5% 1/10W 5% 1/10W

5% 1/10W

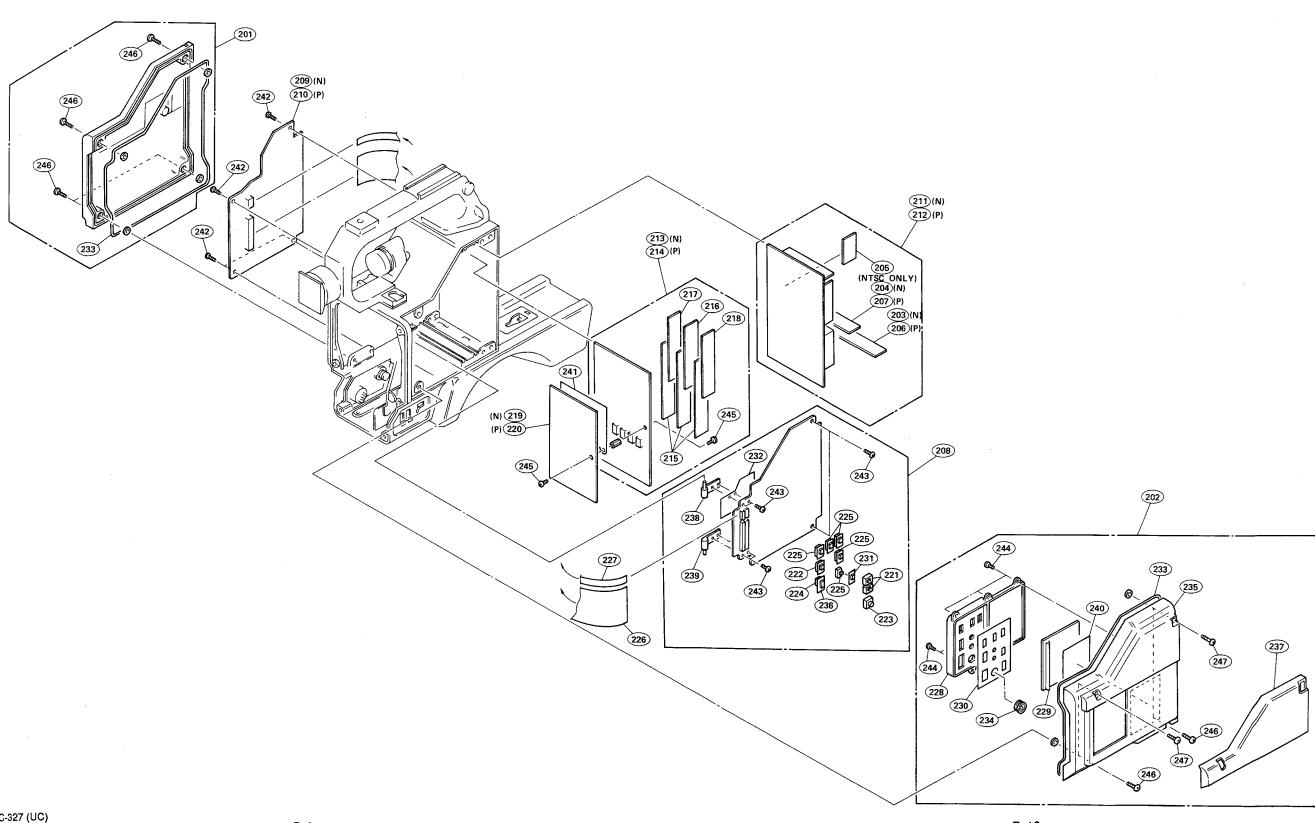
5% 1/10W

5% 1/10W

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SP Description
                                                                 Ref. No. Part No.
                                                                                          SP Description
Ref. No. Part No.
                                                                           1-459-823-11 s COIL, HORIZONTAL LINEARITY
                                                                HLC
MAIN BOARD
           1-589-128-11 o MOUNTED CIRCUIT BOARD
                                                     "MAIN"
           9-994-794-01 s CRT
                                                                 IC2
                                                                            8-759-300-28 s HA11423MP: HITACHI
                                                                 TC3
                                                                           8-759-100-94 s µPC358G2:
           9-994-781-01 s TANTALUM 47 16V
C20
           1-163-038-11 s CHIP CERAMIC 0.1 25V
C21
C22
           1-163-038-11 s CHIP CERAMIC 0.1 25V
           1-126-157-11 s ELECT 10 20% 16V
1-124-464-11 s ELECT 0.22 20% 50V
                                                                 010
                                                                           8-729-881-23 s 2SC2812-L7
C23
                                                                            8-729-881-23 s 2SC2812-L7
C24
                                                                 011
                                                                            8-729-100-76 s 2SA812
                                                                 Q12
                                                                            8-729-881-23 s 2SC2812-L7
           9-994-780-01 s P-P CONDENCER 0.0047
                                                                 Q20
C26
          1-124-438-11 s ELECT 1 20% 50V
1-124-584-11 s ELECT 100 20% 10V
1-131-347-00 s TANTALUM 1 10% 35V
1-126-157-11 s ELECT 10 20% 16V
                                                                 Q21
                                                                            9-994-771-01 s 2SD1220
C28
C29
                                                                           8-729-119-00 s 2SK612
8-729-162-43 s 2SB624-BV3
                                                                 Q22
C30
                                                                 023
C31
          1-163-133-11 s CHIP CERAMIC 470PF 5% 50V
C32
C33
C34
           1-126-157-11 s ELECT 10 20% 16V
           1-126-162-11 s ELECT 3.3 20% 50V
                                                                         1-163-088-11 s CHIP CERAMIC 0.1 25V
1-124-455-00 s ELECT 100 20% 16V
                                                                 R43
C35
                                                                 R44
C36
                                                                 R60
           9-994-777-01 s ELECT 220 6.3V
                                                                 R61
C37
                                                                         № 9-994-785-01 s 10M
           1-130-481-11 s CAP, PE TEREPHTHALATE
C38
                                                                 R66
                                           0.0068 5% 50V
                                                                 R67
                                                                         № 9-994-786-01 s 91K
           1-163-088-11 s CHIP CERAMIC 0.1 25V
C40
           1-163-088-11 s CHIP CERAMIC 0.1 25V
                                                                         ⚠ 1-216-081-11 s CHIP 22K 5% 1/10W 
♠ 1-216-079-11 s CHIP 18K 5% 1/10W 
♠ 1-216-081-11 s CHIP 22K 5% 1/10W
                                                                 R69
C43
           9-994-782-01 s TANTALUM 47 16V
                                                                 R70
C44
                                                                 R72
                                                                         ▲ 1-216-081-11 s CHIP 22K 5% 1/10W
           1-126-162-11 s ELECT 3.3 20% 50V
                                                                 R73
C46
           9-994-783-01 s 0.0056 100V
C48
           9-994-778-01 s ELECT 22 63V
9-994-784-01 s 0.0015 1K
C49
C50
           1-163-088-11 s CHIP CERAMIC 0.1 25V
C51
                                                                 RV10
                                                                             9-994-787-01 s 5K
                                                                             9-994-788-01 s 5K
9-994-789-01 s 200
           9-994-779-01 s ELECT 56 16V
                                                                 RV11
C52
           1-163-088-11 s CHIP CERAMIC 0.1 25V
1-163-088-11 s CHIP CERAMIC 0.1 25V
                                                                 RV12
C53
                                                                             9-994-790-01 s 500
C54
                                                                 RV13
           1-163-088-11 s CHIP CERAMIC 0.1 25V
C55
                                                                 RV20
                                                                         ⚠ 1-228-459-11 s METAL 10K
                                                                         ⚠ 1-228-458-11 s METAL 5K
                                                                 RV21
           9-994-791-01 o RECEPTACLE, 7P
CN4
           9-994-792-01 o RECEPTACLE, 3P
CN7
           9-994-793-01 o RECEPTACLE, 2P
                                                                         ★ 1-439-419-11 s FBT
                                                                T1
           8-719-914-42 s DA204K
D2
           8-719-911-19 s 1SS119
9-994-773-01 s ERA15-06
 D4
D5
           9-994-774-01 s 1SS136
D6
           8-719-948-45 s ERA22-08
n7
```

Ref. No.	Part No. SP Description	Ref. No. Part No. SP Description
SW BOARD	1-589-129-11 o MOUNTED CIRCUIT BOARD "SW" (J,UC) 1-589-129-21 o MOUNTED CIRCUIT BOARD "SW" (EK)	R2
	104 420 11 - FLECT 1 20W FOV	RV1
C1 C3 C4 C5 C6	1-124-438-11 s ELECT 1 20% 50V 1-124-584-11 s ELECT 100 20% 10V 1-124-584-11 s ELECT 100 20% 10V 1-126-154-11 s ELECT 47 20% 6.3V 1-124-438-11 s ELECT 1 20% 50V	RV2 1-230-075-11 s CARBON 2K "CONTR" RV3 1-228-475-11 s METAL 2OK RV4 1-226-368-11 s CARBON 10K "BRIGHT"
C7 C8 C9 C10	1-124-462-11 s ELECT 10 20% 16V 1-163-113-11 s CHIP CERAMIC 68PF 5% 50V 1-163-105-11 s CHIP CERAMIC 33PF 5% 50V 1-163-015-11 s CHIP CERAMIC 0.0033 10%	S1
C11	1-163-038-11 s CHIP CERAMIC 0.1 25V	
		LED BOARD
CN1 CN2 CN3 CN4 CN5	9-994-803-01 o 8P 9-994-804-01 o 3P 9-994-805-01 o 5P 9-994-806-01 o 7S 9-994-807-01 o 2P	1-589-127-11 o MAUNTED CIRCUIT BOARD "LED"
		9-994-810-01 o LED PWB
СР	9-994-808-01 s PROTECTORS ICP-N10(EK)	
		CN9 9-994-809-01 o RECEPTACLE, 5P
D1	8-719-914-43 s DAN202K	
I C1	⚠ 8-759-630-27 s M5236ML: MITSUBISHI	LED2 8-719-800-25 s TLR109A LED3 8-719-800-25 s TLR109A LED4 8-719-800-25 s TLR109A LED5 8-719-800-19 s TL0102A
L1 L2	9-994-800-01 s 100µH 9-994-801-01 s 47µH	FRAME
LED1	9-994-802-01 s SLH-56VT	Q1 8-729-315-63 s 2SB856
Q2 Q3 Q4 Q5 Q6	8-729-881-23 s 2SC2812-L7 8-729-881-23 s 2SC2812-L7 8-729-881-23 s 2SC2812-L7 1-806-828-11 s 2SC2814 9-994-796-01 s 2SC3722K	PACKING MATERIAL AND ACCESSORIES 3-166-610-01 o CARTON, INDIVIDUAL∪€)
Q7 Q8	9-994-796-01 s 2SC3722K 8-729-881-23 s 2SC2812-L7	3-166-612-01 o CARTON, INDIVIDUALE K) 3-699-152-01 o CUSHION, UPPER 3-699-153-01 o CUSHION, LOWER 3-701-627-01 o BAG, POLY

CHASSIS (2) BLOCK



PACKING MATERIAL AND ACCESSORIES

DXC-327H/327PH

Part. No. SP Description

3-166-614-01 o CARTON, INDIVIDUAL DXC-327H(UC)
3-166-615-01 o CARTON, INDIVIDUAL DXC-327PH(EK)
3-699-154-01 o CUSHION(LOWER)
3-699-157-01 o CUSHION(UPPER)
3-752-391-11 s MANUAL, INSTRUCTION(UC, EK)
3-759-391-31 s MANUAL, INSTRUCTION(EK)
3-759-391-41 s MANUAL, INSTRUCTION(EK)
3-759-391-51 s MANUAL, INSTRUCTION(EK)
3-752-391-61 s MANUAL, INSTRUCTION(EK)
3-762-391-61 s MANUAL, INSTRUCTION(EK)
3-764-889-01 o CHART, ADJUSTMENT

DXC-327L/327PL

Part. No. SP Description

3-166-618-01 o CARTON, INDIVIDUAL DXC-327L(UC)
3-166-619-01 o CARTON, INDIVIDUAL DXC-327PL(EK)
3-701-630-01 o BAG, POLY
3-752-391-11 s MANUAL, INSTRUCTION DXC-327L(UC)
3-752-391-31 s MANUAL, INSTRUCTION DXC-327L(UC)
3-752-391-41 s MANUAL, INSTRUCTION DXC-327PL(EK)
3-752-391-51 s MANUAL, INSTRUCTION DXC-327PL(EK)
3-752-391-61 s MANUAL, INSTRUCTION DXC-327PL(EK)
3-764-889-01 o CHART, ADJUSTMENT

DXC-327K/327PK

Part. No. SP Description

7-682-563-09 s SCREW +B4x12

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3-166-616-01 o CARTON, INDIVIDUAL DXC-327K(UC)
3-166-617-01 o CARTON, INDIVIDUAL DXC-327PK(EK)
3-701-630-01 o BAG, POLY
3-752-391-11 s MANUAL, INSTRUCTION DXC-327K(UC)/DXC-327PK(EK)
3-752-391-31 s MANUAL, INSTRUCTION DXC-327K(UC)/DXC-327PK(EK)
3-752-391-51 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-51 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-61 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-61 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-764-889-01 o CHART, ADJUSTMENT
7-682-560-09 s SCREW +B4x6
```

1.5INCH ELECTRONIC VIEWFINDER



SPECIFICATIONS

Picture tube Indicators 1.5-inch monochrome REC/TALLY indicator

BATT indicator SHUTTER indicator

GAIN UP indicator

Resolution

400 lines

Power requirements

12 V DC

Power consumption

2.3 W

Weight

Approx. 500 g (1 lb 2 oz)

Dimensions

Approx. $182 \times 68 \times 205$ mm (w/h/d)

Supplied accessory

Operating Instructions (1)

Design and specifications are subject to change without notice.



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	SemiconductorB-1
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SECTION A BLOCK DIAGRAM

OVERALL BLOCK

BUFF
D6. Q12
PB VIDEO
DETECT 2 6-2 UNREG +12V CN-498 (2/2) SW-447 (1/2) VF VIDED CONT SI VIR START/ RETURN VIDEO CN-498 (1/2) SW-447 (2/2) CH106

GENLOCK IN CN103 WIC IN GEN LOCK VIDEO (X) CN105
AUDIO OUT CA-15 OVERALL BLOCK

CA-327 (J, UC) CA-327P (EK)

A-1 B

I

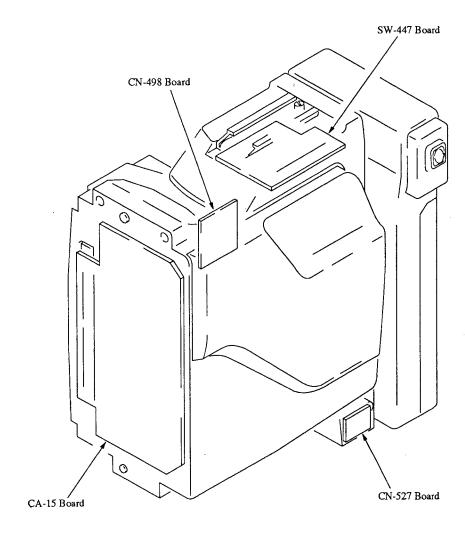
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A-2

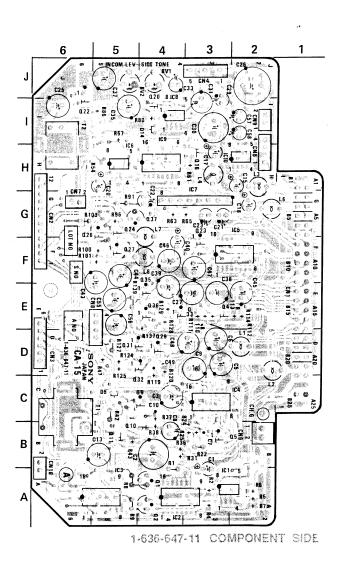
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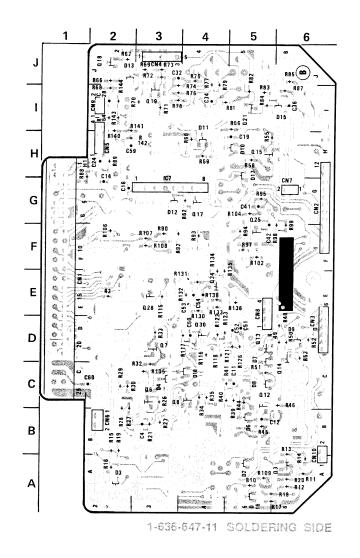
SECTION C SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



CA-15 BOARD

CA-15	(1-636-647-	11)	
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9	E-1 G-6 D-6 J-3 H-2 B-2 G-6 E-5 I-2 A-6	Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36 Q37	F-5 E-3 D-4 D-5 C-4 E-3 E-4 F-4 G-4
D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	A-5 C-3 C-5 B-5 C-5 D-6 H-5 I-4 G-3 J-2 I-6 A-5 H-5 C-4	RV1 RV2 T1 T2	J-4 J-4 C-5 I-6
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10	A-3 A-4 A-5 C-2 G-2 H-5 G-3 J-4 I-4		
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26	A-4 A-6 E-3 B-2 C-3 C-4 B-5 C-5 C-6 H-5 H-3 J-4 I-5 G-3 G-5 G-6 G-6		

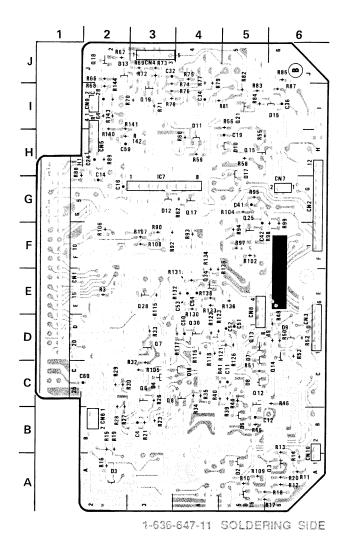




CA-15	i (1-636-647-11)			
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9	E-1 G-6 D-6 J-3 H-2 B-2 G-6 E-5 I-2 A-6	Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36	F-5 E-3 D-4 D-5 C-4 E-3 E-4 F-4	
D2 D3 D4 D5 D6 D7 D8 D9	A-5 A-2 C-3 C-5 B-5 D-5 C-5 D-6 H-5	Q37 RV1 RV2 T1 T2	G-4 J-4 J-4 C-5 I-6	1€
D11 D12 D13 D14 D15 D16 D17 D18	I-4 G-3 J-2 I-4 I-6 A-5 H-5 C-4			CN
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10	A-3 A-4 A-5 C-2 G-2 H-5 G-3 J-4 I-4			1 -63 %
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q20 Q21 Q22 Q23 Q24 Q25 Q26	A-4 A-6 E-3 B-2 C-3 C-3 C-4 B-5 B-5 C-5 C-6 H-3 J-4 I-5 I-6 G-3 G-5 G-6			St

SW-447 CA-15 CA-15 SW-447

CN-498 BOARD



CA-15	(1-636-647-11)			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10	E-1 G-6 D-6 J-3 H-2 B-2 G-6 E-5 I-2 A-6	Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36 Q37	F-5 E-3 D-4 D-5 C-4 E-3 E-4 F-4 E-4	CN - 498 1-636 - 661-11 LOT NO SON JAPAI
D2	A-5			1-636-661-11 COMPONENT
D3 D4 D5	A-2 C-3 C-5	RV1 RV2	J-4 J-4	1.000.00 to 11. OOMS. (1487) 48.
D6 D7 D8 D9 D10	B-5 D-5 C-5 D-6 H-5	T1 T2	C-5 I-6	
D11 D12 D13 D14 D15	I-4 G-3 J-2 I-4 I-6			CN-527 BOARD
D16 D17 D18	A-5 H-5 C-4			SONY

D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17

IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q26 Q26 Q26 Q26 Q27

A-4 A-6 B-3 B-3 C-3 C-4 B-5 C-5 C-6 H-3 J-1 G-3 G-5 G-6 G-6 G-6

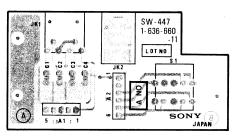
A-3 A-4 A-5 C-2 G-2 H-5 G-3 J-4 I-4 H-3

CN-527 BOARD



1-636-740-12 COMPONENT SIDE

SW-447 BOARD



SIDE

1-636-660-11 COMPONENT SIDE



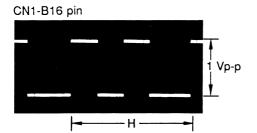
CA-15 BOARD

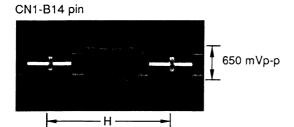
- NOTE:
 1. All voltage are DC, measured with a digital voltmeter.
- 2. All waveforms are taken and DC voltage is measured in condition below.
 - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.

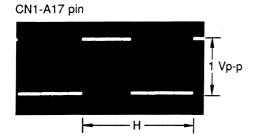
• GAIN : 0 dB • WHITE BAL : PRE

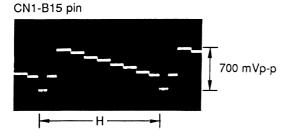
• ABL : OFF • SHUTTER : OFF • ZEBRA : OFF

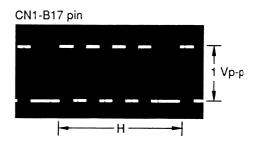
• VF MARKER: OFF : 0° PHASE • BARS : ON

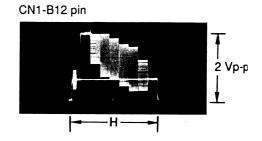


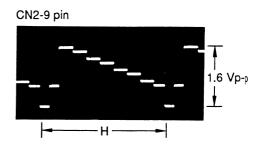


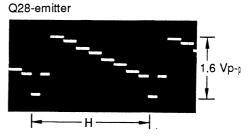




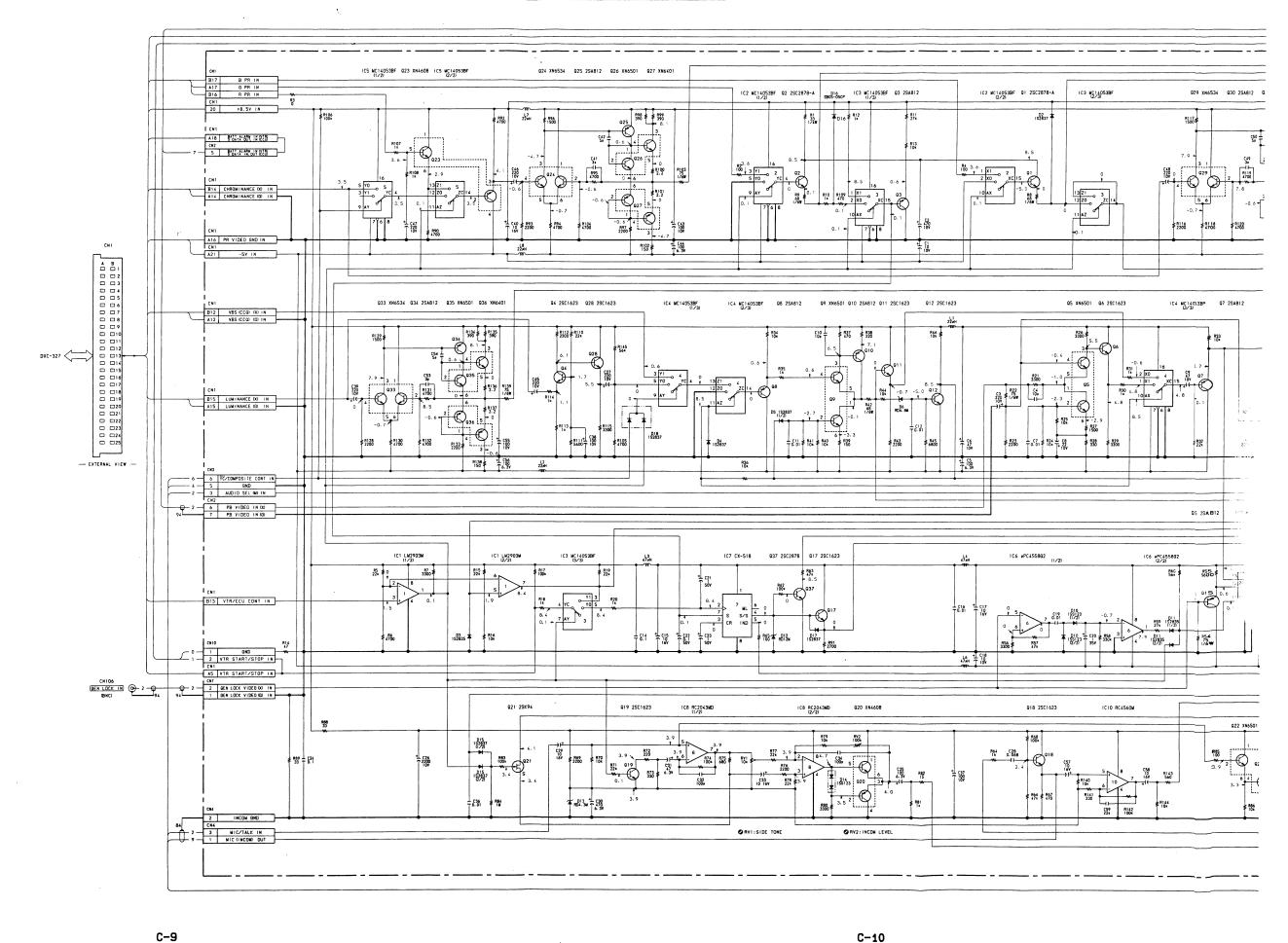








CA-15 BOARD CN-498 BOARD CN-527 BOARD SW-447 BOARD



CA-327 (J, UC) CA-327P (EK)

C-9 B

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CA-327P (EK)

B-CA327-FRAME M

C-11

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SECTION D SPARE PARTS

PARTS INFORMATION

1. Safety Related Component Warning

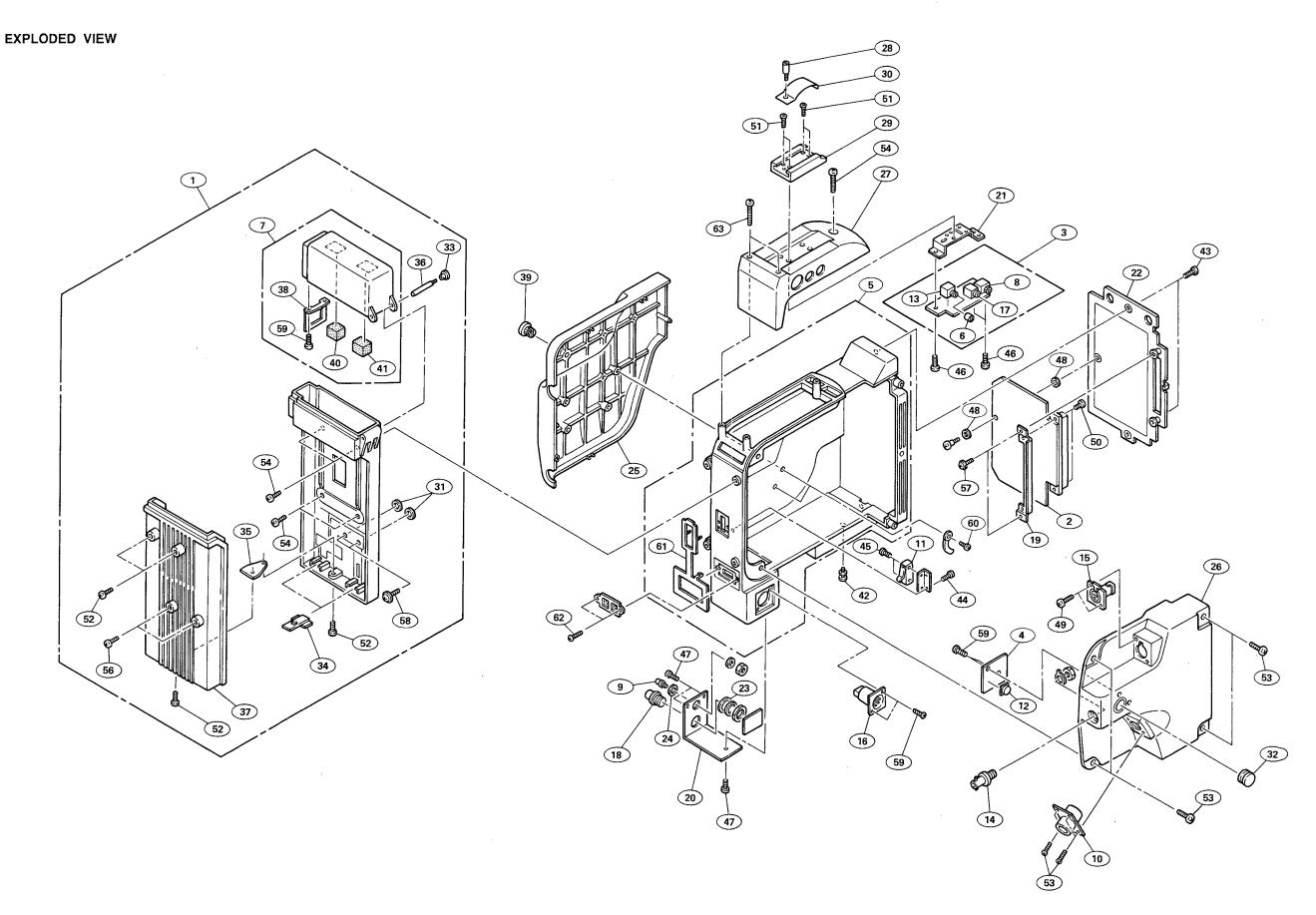
Components indentified by shading marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

- 2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual 's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
- 3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
- 4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
- All capacitors are in micro farads unless otherwise specified.
 All inductors are in micro henries unless otherwise specified.
 All resistors are in ohms.

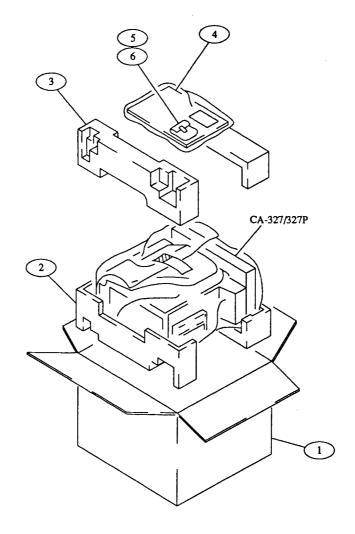
CA-327 (UC) CA-327P (EK)

D-1

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SP Description
       Part No.
No.
                                                                           7-682-248-04 s SCREW +K 3X8
        A-6703-651-C s CASE ASSY, BATTERY
                                                                           7-682-546-09 s SCREW +B 3X5
        A-7515-231-A o MOUNTED CIRCUIT BOARD, CA-15
                                                                   52
                                                                           7-682-548-04 s SCREW +B 3X8
        A-7520-518-A o MOUNTED CIRCUIT BOARD, SW-447
                                                                   53
                                                                           7-682-548-09 s SCREW +B 3X8
        A-7520-519-A o MOUNTED CIRCUIT BOARD, CN-498
                                                                   54
        X-3165-587-1 o CHASSIS ASSY, CA
                                                                   55
                                                                           7-682-553-09 s SCREW +B 3X20
                                                                           7-682-559-09 s SCREW +B 4X5
                                                                   56
        X-3664-208-0 s KNOB ASSY, FADE
 6
                                                                           7-682-947-01 s SCREW +PSW 3X6
        X-3717-701-3 o COVER ASSY, TOP, BATTERY
                                                                   57
 7
        1-507-883-11 s JACK, SMALL TYPE, 4P "INTER COM"
1-507-918-00 o JACK, PIN 1P "AUDIO OUT"
                                                                           7-682-948-01 s SCREW +PSW 3X8
                                                                   58
 8
                                                                           7-685-133-19 s SCREW +P 2.6X6 TYPE1
                                                                    59
 q
        1-508-942-12 s CONNECTOR, 14P MALE "VTR/CCU/CMA"
                                                                            7-685-649-79 s SCREW +BTP 3X14 TYPE2 N-S
                                                                    60
10
                                                                            3-168-435-01 o PACKING, DROP PROTECTION
        1-552-665-00 s SWITCH, MICRO
11
        1-553-739-21 s SWITCH, KEY BOARD
1-554-955-11 s SWITCH, ROTARY "VTR"
1-561-781-11 s CONNECTOR, BNC "GENLOCK IN"
                                                                            7-621-772-30 s SCREW +B 2X6
                                                                    62
12
                                                                            7-682-553-09 s SCREW +B 3X12
                                                                    63
13
14
        1-563-096-11 s CONNECTOR (WITH SW), 3P FEMALE
15
        1-564-603-11 s CONNECTOR (WITH DC SW), 4P MALE "DC IN"
16
        1-566-740-11 s JACK "EAR"
17
        1-568-699-11 s SOCKET, MINIATURE 4P "S VIDEO OUT"
3-166-318-01 o BRACKET, CONNECTOR
18
 19
        3-166-319-01 o PLATE (A), BOTTOM
 20
        3-166-329-01 o BRACKET, PC BOARD
        3-166-330-01 o PANEL, CONNECTOR
3-167-448-01 o PLATE, GROUND
 22
 23
         3-167-449-01 o INSULATOR (1)
 24
         3-167-450-01 o PAD, SIDE
 25
         3-168-373-01 o COVER, SIDE
         3-168-436-01 o COVER, TOP
 27
         3-664-213-00 o SCREW, STOPPER
 28
         3-664-218-00 o SHOE
 29
         3-664-228-00 o PLATE, SPRING
 30
         3-669-596-00 s WASHER (2.3), STOPPER
 31
         3-672-221-02 s PACKING, CONTROL
 33
         3-703-075-00 s CAP 2, SHAFT
         3-717-707-02 o CUSHION (2)
 34
         3-717-708-01 o RETAINER, CASE
 35
         3-717-709-01 o SHAFT, LID
3-718-040-01 o COVER (1), BATTERY CASE
 36
 37
         3-718-172-01 o RETAINER, HOOK
 39
         3-725-907-01 s BUSHING, BLIND
         3-729-720-01 o CUSHION (LEFT)
 40
         3-729-721-01 o CUSHION (RIGHT)
 41
         3-744-355-01 o SHAFT, GUIDE
7-621-770-67 s SCREW +B 2.6X6
 42
 43
         7-621-772-18 s SCREW +B 2X4
 44
         7-621-772-48 s SCREW +B 2X8
 45
         7-621-773-86 s SCREW +B 2.6X4
 46
         7-621-775-10 s SCREW +B 2.6X4
 47
         7-623-925-11 s WASHER 4.0, NYLONE
 48
         7-627-556-77 s SCREW, PRECISION +P2.6X6 TYPE 1
 49
         7-628-254-20 s SCREW +PS 2.6X8
 50
```



RESISTOR, CHIP

Part No. SP Description 1-216-295-00 s RES, CHIP 0 5% 1/10W 1-216-298-00 s RES, CHIP 2.2 5% 1/10W 1-216-302-00 s RES, CHIP 2.7 5% 1/10W 1-216-304-11 s RES, CHIP 3.3 5% 1/10W 1-216-306-11 s RES, CHIP 3.9 5% 1/10W 1-216-308-00 s RES, CHIP 4.7 5% 1/10W 1-216-309-00 s RES, CHIP 5.6 5% 1/10W 1-216-311-00 s RES, CHIP 6.8 5% 1/10W 1-216-313-00 s RES, CHIP 8.2 5% 1/10W 1-216-001-00 s RES, CHIP 10 5% 1/10W 12 5% 1/10W 1-216-003-11 s RES, CHIP 1-216-005-00 s RES, CHIP 15 5% 1/10W 1-216-007-00 s RES, CHIP 18 5% 1/10W 1-216-009-00 s RES, CHIP 22 5% 1/10W 1-216-011-00 s RES, CHIP 5% 1/10W 1-216-013-00 s RES, CHIP 5% 1/10W 33 1-216-015-00 s RES, CHIP 5% 1/10W 39 1-216-017-00 s RES, CHIP 47 5% 1/10W 1-216-019-00 s RES, CHIP 56 5% 1/10W 1-216-021-00 s RES, CHIP 68 5% 1/10W 1-216-023-00 s RES, CHIP 5% 1/10W 1-216-025-00 s RES, CHIP 100 5% 1/10W 1-216-027-00 s RES, CHIP 120 5% 1/10W 150 1-216-029-00 s RES, CHIP 5% 1/10W 1-216-031-00 s RES, CHIP 180 5% 1/10W 1-216-033-00 s RES, CHIP 220 1-216-035-00 s RES, CHIP 1-216-037-00 s RES, CHIP 270 5% 1/10W 330 5% 1/10W 1-216-039-00 s RES, CHIP 390 5% 1/10W 1-216-041-00 s RES, CHIP 470 5% 1/10W 1-216-043-00 s RES, CHIP 560 5% 1/10W 1-216-045-00 s RES, CHIP 5% 1/10W 680 1-216-047-00 s RES, CHIP 820 1-216-049-00 s RES, CHIP 1k 820 5% 1/10W 5% 1/10W 1-216-051-00 s RES, CHIP 1.2k 5% 1/10W 1-216-053-00 s RES, CHIP 1.5k 5% 1/10W 1-216-055-00 s RES, CHIP 1.8k 5% 1/10W 1-216-057-00 s RES, CHIP 2. 2k 5% 1/10W 1-216-059-00 s RES, CHIP 2. 7k 5% 1/10W 1-216-061-00 s RES, CHIP 3. 3k 5% 1/10W 1-216-063-00 s RES, CHIP 3. 9k 5% 1/10W 1-216-065-00 s RES, CHIP 4.7k 5% 1/10W 1-216-067-00 s RES, CHIP 5.6k 5% 1/10W 1-216-069-00 s RES, CHIP 6.8k 5% 1/10W 1-216-071-00 s RES, CHIP 8.2k 5% 1/10W 1-216-073-00 s RES, CHIP 10k 5% 1/10W 1-216-075-00 s RES, CHIP 12k 5% 1/10W 1-216-077-00 s RES, CHIP 15k 5% 1/10W 1-216-079-00 s RES, CHIP 18k 5% 1/10W 1-216-081-00 s RES, CHIP 22k 5% 1/10W 1-216-083-00 s RES, CHIP 27k 5% 1/10W 1-216-085-00 s RES, CHIP 33k 5% 1/10W

1-216-748-11 s RES, CHIP

1-216-089-00 s RES, CHIP

1-216-091-00 s RES, CHIP 56k 5% 1/10W

39k 5% 1/10W

5% 1/10W

47k

RESISTOR, CHIP

Part No. SP Description 1-216-093-00 s RES, CHIP 68k 5% 1/10W 1-216-095-00 s RES, CHIP 82k 5% 1/10W 1-216-097-00 s RES, CHIP 100k 5% 1/10W 1-216-099-00 s RES, CHIP 120k 5% 1/10W 1-216-101-00 s RES, CHIP 150k 5% 1/10W 1-216-103-00 s RES, CHIP 180k 5% 1/10W 1-216-105-00 s RES, CHIP 220k 5% 1/10W 1-216-107-00 s RES, CHIP 270k 5% 1/10W 1-216-109-00 s RES, CHIP 330k 5% 1/10W 1-216-111-00 s RES, CHIP 390k 5% 1/10W 1-216-113-00 s RES, CHIP 470k 5% 1/10W 1-216-115-00 s RES, CHIP 560k 5% 1/10W 1-216-117-00 s RES, CHIP 680k 5% 1/10W 1-216-119-00 s RES, CHIP 820k 5% 1/10W 1-216-121-00 s RES, CHIP 1.0M 5% 1/10W 1-216-123-11 s RES, CHIP 1.2M 5% 1/10W 1-216-125-00 s RES, CHIP 1.5M 5% 1/10W 1-216-127-11 s RES, CHIP 1.8M 5% 1/10W 1-216-129-00 s RES, CHIP 2.2M 5% 1/10W 1-216-131-11 s RES, CHIP 2.7M 5% 1/10W

1-216-133-00 s RES, CHIP 3.3M 5% 1/10W

CA-15 BOA		(CA-15 B	OARD)
Ref. No.	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc	A-7515-231-A o MOUNTED CIRCUIT BOARD "CA-15"	C58 C59	1-126-157-11 s ELECT 10uF 20% 16V 1-163-235-11 s CERAMIC 22PF 5% 50V
C1 C2 C3 C4 C5	1-131-377-00 s TANTALUM 10uF 10% 10V 1-124-472-11 s ELECT 470uF 20% 10V 1-126-176-11 s ELECT 220uF 20% 10V 1-163-227-11 s CERAMIC 10PF 5% 50V 1-124-584-00 s ELECT 100uF 20% 10V		1-566-581-11 o CONNECTOR, MULTI 50P 1-506-477-11 o CONNECTOR, 12P, MALE 1-569-205-11 o PLUG HOUSING, 12P 1-569-191-11 o TERMINAL, SOLDERLESS 1-569-193-11 o CONTACT
C6 C7 C8 C9 C10	1-124-589-11 s ELECT 47uF 20% 10V 1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-124-638-11 s ELECT 22uF 20% 6.3V 1-124-589-11 s ELECT 47uF 20% 10V 1-163-227-11 s CERAMIC 10PF 5% 50V	CN3 CN4 CN5	1-506-471-11 o CONNECTOR, 6P, MALE 1-506-470-11 o CONNECTOR, 5P, MALE 1-506-469-11 o CONNECTOR, 4P, MALE 1-569-197-11 o PLUG HOUSING, 4P 1-569-191-11 o TERMINAL, SOLDERLESS
C11 C12 C13	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-124-584-00 s ELECT 100uF 20% 10V		1-569-193-11 o CONTACT
C14 C15 C16 C17	1-163-038-00 s CERAMIC CHIP 0.1uF 25V 1-131-365-00 s TANTALUM 10uF 10% 16V 1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-131-365-00 s TANTALUM 10uF 10% 16V	CN6 CN7	1-560-356-00 o CONNECTOR POST HEADER, ILG (2P) 1-506-467-11 o CONNECTOR, 2P, MALE 1-569-195-11 s HOUSING, CONNECTOR 2P 1-569-191-11 o TERMINAL, SOLDERLESS 1-569-193-11 o CONTACT
C18 C19 C20	1-131-377-00 s TANTALUM 10uF 10% 10V 1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-131-347-00 s TANTALUM 1uF 10% 35V 1-126-301-11 s ELECT 1uF 20% 50V 1-124-463-00 s ELECT 0.1uF 20% 50V		1-506-469-11 o CONNECTOR, 4P, MALE 1-564-467-11 o CONNECTOR, 2P, MALE 1-569-195-11 s HOUSING, CONNECTOR 2P 1-569-191-11 o TERMINAL, SOLDERLESS
C 2 2 C 2 3	1-124-463-00 s ELECT 0.1uf 20% 50V 1-126-301-11 s ELECT 1uF 20% 50V		1-569-193-11 o CONTACT
C 24 C 25	1-163-038-00 s CERAMIC CHIP 0. 1uF 25V	CN10	1-506-467-11 o CONNECTOR, 2P, MALE
C 26 C 27 C 28 C 29 C 30	1-124-584-00 s ELECT 100uF 20% 10V 1-124-893-11 s ELECT 2200uF 20% 6.3V 1-126-176-11 s ELECT 220uF 20% 10V 1-163-036-00 s CERAMIC CHIP 0.068uF 50V 1-126-157-11 s ELECT 10uF 20% 16V 1-124-472-11 s ELECT 470uF 20% 10V	D2 D3 D4 D5 D6	8-719-104-31 s DIODE 1S2838 8-719-104-34 s DIODE 1S2836 8-719-104-31 s DIODE 1S2838 8-719-104-31 s DIODE 1S2838 8-719-106-16 s DIODE RD6.8M-B1
C31 C32 C33 C34 C35	1-126-154-11 s ELECT 47uF 20% 6.3V 1-163-251-11 s CERAMIC 100PF 5% 50V 1-126-157-11 s ELECT 10uF 20% 16V 1-163-251-11 s CERAMIC 100PF 5% 50V 1-124-584-00 s ELECT 100uF 20% 10V	D7 D8 D9 D10 D11	8-719-104-34 s DIODE 1S2836 8-719-105-32 s DIODE RD2. 7M-B2 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-104-34 s DIODE 1S2836
C36 C37 C38 C39 C40	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-124-584-00 s ELECT 100uF 20% 10V 1-124-584-00 s ELECT 100uF 20% 10V 1-126-176-11 s ELECT 220uF 20% 10V 1-131-365-00 s TANTALUM 10uF 10% 16V	D12 D13 D14 D15 D16	8-719-106-70 s DIODE RD12M-B1 8-719-105-63 s DIODE RD4. 3M-B1 8-719-800-76 s DIODE 1SS226 8-719-104-31 s DIODE 1S2838 8-719-938-75 s SB05-05CP
C 41 C 42 C 43 C 44 C 45	1-163-086-00 s CERAMIC CHIP 3PF 0.25PF 50V 1-163-088-00 s CERAMIC CHIP 5PF 0.25PF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-124-584-00 s ELECT 100uF 20% 10V 1-126-176-11 s ELECT 220uF 20% 10V	D17 D18 IC1 IC2 IC3	8-719-104-31 s DIODE 1S2838 8-719-104-31 s DIODE 1S2838 8-759-981-65 s IC LM2903M 8-759-300-71 s IC MC14053BF 8-759-300-71 s IC MC14053BF
C46 C47 C48 C49 C50	1-126-176-11 s ELECT 220uF 20% 10V 1-126-176-11 s ELECT 220uF 20% 10V 1-126-176-11 s ELECT 220uF 20% 10V 1-163-086-00 s CERAMIC CHIP 3PF 0.25PF 50V 1-163-088-00 s CERAMIC CHIP 5PF 0.25PF 50V 1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V	IC4 IC5 IC6 IC7 IC8 IC9 IC10	8-759-300-71 s IC MC14053BF 8-759-300-71 s IC MC14053BF 8-759-100-96 s IC UPC4558G2 8-759-605-18 s IC CX518 8-759-981-58 s IC RC2043MD 8-759-300-71 s IC MC14053BF 8-759-981-99 s IC RC4560M
C 52 C 53 C 54 C 55 C 56 C 57	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-163-086-00 s CERAMIC CHIP 3PF 0.25PF 50V 1-163-088-00 s CERAMIC CHIP 5PF 0.25PF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-124-584-00 s ELECT 100uF 20% 10V 1-126-157-11 s ELECT 10uF 20% 16V	L1 L2 L3 L4 L6	1-408-413-00 s MICRO 22uH 1-408-413-00 s MICRO 22uH 1-410-478-11 s 47uH 1-410-478-11 s 47uH 1-410-478-11 s 47uH

(CA-15 BOARD) (CA-15 BOARD) Ref. No. Ref. No. or Q'ty Part No. or Q'ty Part No. SP Description SP Description 1-408-413-00 s MICRO 22uH 1-427-270-XX s TRANSFORMER, OUTPUT 1.7 1-408-413-00 s MICRO 22uH 1.8 1-427-487-00 s TRANSFORMER, OUTPUT Q1 8-729-201-05 s TRANSISTER 2SC2878-B 8-729-201-05 s TRANSISTER 2SC2878-B Q3 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 04 8-729-402-19 s TRANSISTOR XN6501 Q5 8-729-100-66 s TRANSISTOR 2SC1623 CN-498 BOARD Q6 8-729-216-22 s TRANSISTOR 2SA1162 Q7 8-729-216-22 s TRANSISTOR 2SA1162 Ref. No. Q8 8-729-402-19 s TRANSISTOR XN6501 or Q'ty Part No. SP Description Q9 8-729-216-22 s TRANSISTOR 2SA1162 010 A-7520-519-A o MOUNTED CIRCUIT BOARD "CN-498" Q11 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 CN1 1-506-702-11 o CONNECTOR, ILG 3P, 012 Q13 8-729-100-66 s TRANSISTOR 2SC1623 1-561-515-00 o HOUSING, ILG 3P FEMALE 8-729-100-66 s TRANSISTOR 2SC1623 1-560-372-00 o CONTACT, AWG22-28 014 8-729-216-22 s TRANSISTOR 2SA1162 015 1-506-702-11 o CONNECTOR, ILG 3P. 1-561-515-00 o HOUSING, ILG 3P FEMALE 1-560-372-00 o CONTACT, AWG22-28 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 016 017 8-729-100-66 s TRANSISTOR 2SC1623 018 Q19 8-729-100-66 s TRANSISTOR 2SC1623 CN3 1-560-356-00 o CONNECTOR POST HEADER, ILG (2P) MAL 1-561-514-00 o HOUSING, ILG 2P FEMALE 1-560-372-00 o CONTACT, AWG22-28 8-729-402-84 s TRANSISTER XN4601 020 8-729-109-41 s TRANSISTOR 2SK94-X1 Q21 8-729-402-19 s TRANSISTOR XN6501 1-561-514-00 o HOUSING, ILG 2P FEMALE 1-560-372-00 o CONTACT, AWG22-28 CNR **Q22** Q23 8-729-402-84 s TRANSISTER XN4601 8-729-403-32 s TRANSISTOR XN6534 024 8-729-216-22 s TRANSISTOR 2SA1162 CN10 Q25 026 8-729-402-19 s TRANSISTOR XN6501 1-564-831-11 o CONTACT 1-569-193-11 o CONTACT 8-729-402-78 s TRANSISTOR XN6401 Q27 8-729-100-66 s TRANSISTOR 2SC1623 Q28 S1 **Q**29 8-729-403-32 s TRANSISTOR XN6534 8-729-216-22 s TRANSISTOR 2SA1162 Q30 031 8-729-402-19 s TRANSISTOR XN6501 8-729-402-78 s TRANSISTOR XN6401 032 8-729-403-32 s TRANSISTOR XN6534 Q33 8-729-216-22 s TRANSISTOR 2SA1162 Q34 CN-527 BOARD Q35 8-729-402-19 s TRANSISTOR XN6501 Ref. No. 8-729-402-78 s TRANSISTOR XN6401 Q36 8-729-201-05 s TRANSISTER 2SC2878-B or Q'ty Part No. Q37 1-249-399-11 s CARBON 33 5% 1/4W 1pc R1 1-215-393-00 s METAL 68 1% 1/6W R8

1-215-393-00 s METAL 68 1% 1/6W

1-215-394-00 s METAL 75 1% 1/6W

1-215-393-00 s METAL 68 1% 1/6W

1-215-394-00 s METAL 75 1% 1/6W

1-226-703-11 s RES, ADJ, METAL 10K 1-226-775-11 s RES, ADJ, METAL 100K

1-215-431-00 s METAL 2.7K 1% 1/6W

1-216-667-11 s METAL CHIP 4.7K 0.50% 1/10W

R9

R22

R42

R54

R91

R95

R103

R104

R119

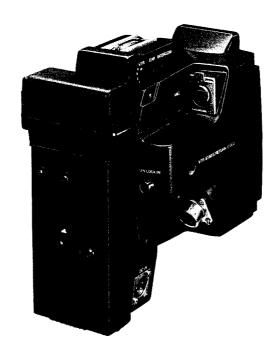
R120 R127

R131

R132

R139

SW-447 B	OARD	FRAME	
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc	A-7520-518-A o MOUNTED CIRCUIT BOARD "SW-447"	C1001 C1002	1-161-051-00 s CERAMIC 0.01uF 10% 25V 1-161-051-00 s CERAMIC 0.01uF 10% 25V
C1	1-161-051-00 s CERAMIC 0.01uF 10% 25V		
C2	1-161-051-00 s CERAMIC 0.01uF 10% 25V	CN101	1-508-942-00 s RECEPTACLE, 14P MAIL "VTR/CCU/CMA"
C3	1-161-051-00 s CERAMIC 0.01uF 10% 25V	CN102	1-564-603-11 s CONNECTOR WITH DC SW, 4P, MALE
C4	1-161-051-00 s CERAMIC 0.01uF 10% 25V	CN103	1-563-096-11 s RECEPTACLE, 3P FEMAIL (WITH SW) "MIC IN"
CN3	1-569-199-11 o PLUG HOUSING, 6P 1-562-739-11 o HOUSING, CONNECTOR 6P	CN104	1-568-699-11 s SOCKET, MINIATURE (ROUND) 4P "S VIDEO OUT"
	1-564-831-11 o CONTACT 1-569-193-11 o CONTACT	CN105	1-507-918-00 o JACK, 1P "AUDIO OUT"
CN4	1-569-198-11 o PLUG HOUSING, 5P	CN106	1-561-781-11 s CONNECTOR, BNC, FEMALE
UN4	1-562-738-11 o HOUSING, 5P 1-564-831-11 o CONTACT	R1001	1-247-826-00 s CARBON 620 5% 1/4W
	1-569-191-11 o CONTACT 1-569-193-11 o CONTACT	SW101	1-552-665-00 s SWITCH, MICRO
JK1	1-507-883-00 s JACK, SMALL TYPE 4P		
JK2	1-566-740-11 s JACK		
S1	1-554-955-11 s SWITCH, ROTARY "VTR"		



SPECIFICATIONS

Inputs/Outputs VTR/CCU/CMA connector: Sony Q-type,

14-pin

DC IN: XLR-type, 4-pin MIC IN: XLR-type, 3-pin GEN LOCK IN: BNC-type

EAR: mini jack

INTERCOM: mini intercom jack S VIDEO OUT: mini DIN-type, 4-pin

AUDIO OUT: phono jack

Power requirements

12 V DC

Power consumption

0.8 W

Operating temperature

-5°C to +45°C (23°F to 113°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)

Weight

1.2 kg (2 lb 10 oz)

Dimensions

 $118\times205\times187~\text{mm}$

 $(4^{3}/4 \times 8^{1}/3 \times 7^{3}/8$ inches)

Supplied accessories

Screws for attaching the CA-327/327P

 $M4 \times 6 (2)$ $M4 \times 12 (2)$

Operating instructions (1)

Design and specifications are subject to change without notice.



TABLE OF CONTENTS

A.	BLOCK DIAGRAMS
	OverallA-1
В.	SEMICONDUCTOR
	SemiconductorB-1
C.	SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS
	CA-15 — CN-498 CN-527 SW-447 —
D.	SPARE PARTS
	Parts Information

SECTION A BLOCK DIAGRAM

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DXF-501 (J, UC) DXF-501CE (EK)

A-1

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C

1

D

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E

1

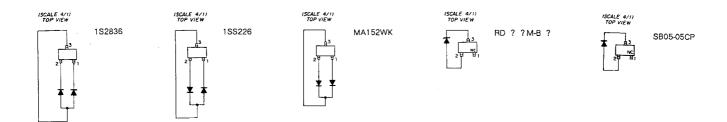
B-DXF501-BLOCK/N

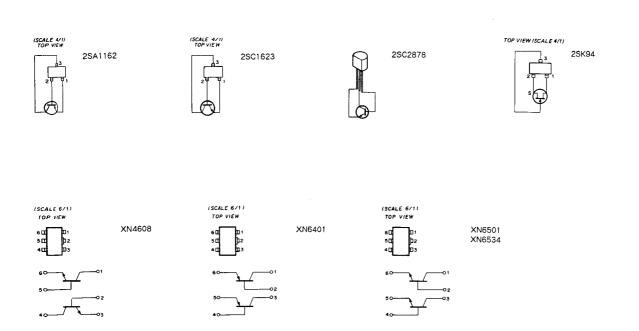
SECTION B SEMICONDUCTOR

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

TYPE I	PAGE
1S2836 · · · · · · · · · · · · · · · · · · ·	B-1 B-1
2SA1162 · · · · · · · · · · · · · · · · · · ·	B-1 B-1 B-1 B-1
CX518 · · · · · · · · · · · · · · · · · · ·	B-2
LM2903M ·····	B-2
MA152WK · · · · · · · · · · · · · · · · · · ·	B-1 B-2
RC2043MD · · · · · · · · · · · · · · · · · · ·	B-2 B-2 B-1
SB05-05CP	B-1
uPC4558G2 · · · · · · · · · · · · · · · · · · ·	B-2
XN4608 XN6401 XN6501 XN6534	B-1 B-1 B-1 B-1

DIODE, TRANSISTOR

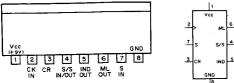


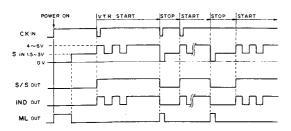


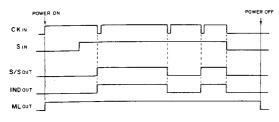
CX518 (SONY)

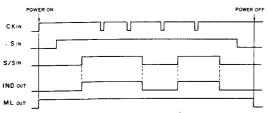
INTERFACE CIRCUIT BETWEEN VTR AND CAMERA











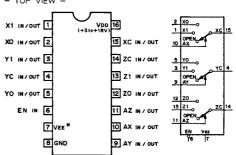
LM2903M (RAYTHEON) FLAT PACKAGE

DUAL VOLTAGE COMPARATORS - TOP VIEW -



MC14053BF (MOTOROLA) FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER – TOP VIEW –



		T. INPUTS	ON
	EN	A (X,Y,Z,)	CHANNEL
O; LOW LEVEL	0	0	0
1 HIGH LEVEL	0	1	1
X; DON'T CARE.	1	×	OPEN

RC2043MD (RAYTHEON) FLAT PACKAGE

OPERATIONAL AMPLIFIER - TOP VIEW -



RC4560M (RAYTHEON) FLAT PACKAGE

OPERATIONAL AMPLIFIER - TOP VIEW -



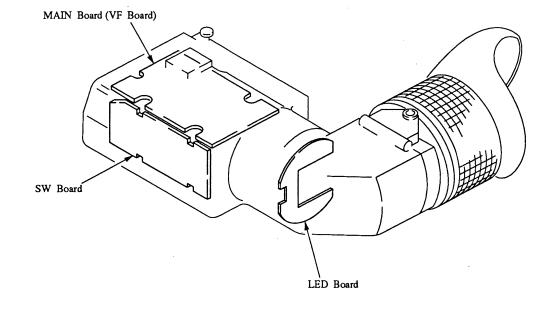
uPC4558G2 (NEC) FLAT PACKAGE

OPERATIONAL AMPLIFIER

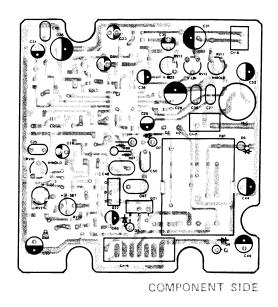
- TOP VIEW -

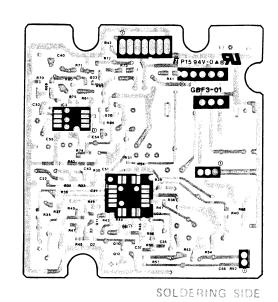


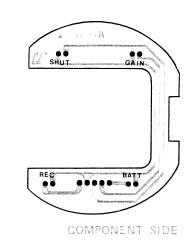
SECTION C SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



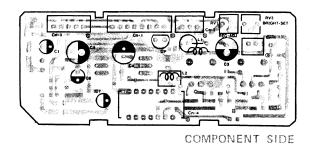
MAIN BOARD LED BOARD

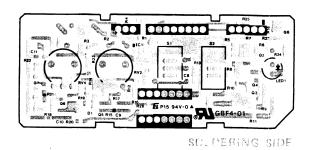




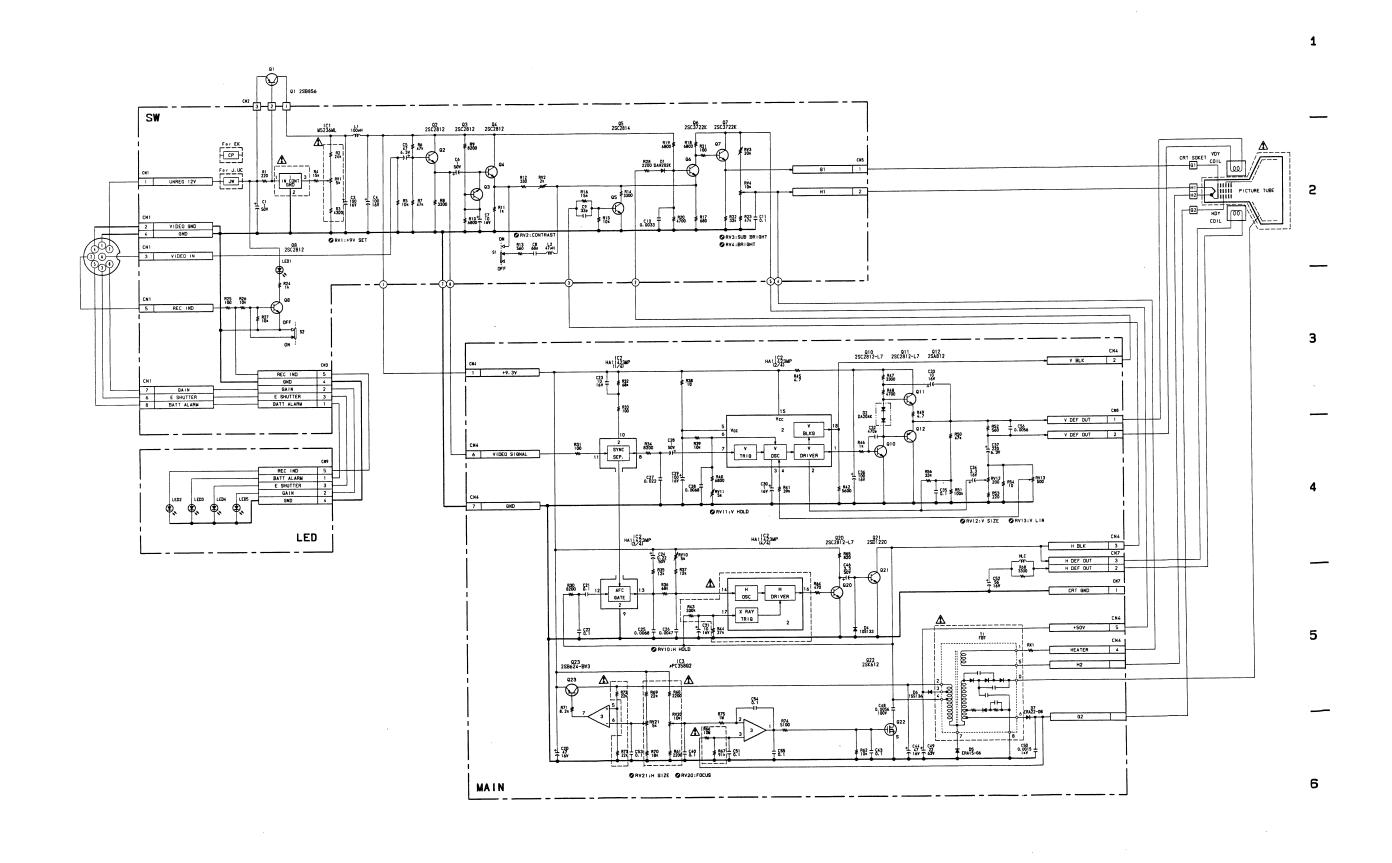


SW BOARD





FRAME



DXF-501 (J, UC) DXF-501CE (EK)

C-5

В

D

C-6 Ε

B-DXF501-FRAME/M

SECTION D SPARE PARTS

PARTS INFORMATION

1. Safety Related Component Warning

Components indentified by shading marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

- 2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual 's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
- 3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
- 4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
- All capacitors are in micro farads unless otherwise specified.
 All inductors are in micro henries unless otherwise specified.
 All resistors are in ohms.

EXPLODED VIEW

CCD BLOCK

```
SP Description
No.
                        Part No.
                       A-7515-210-A o MOUNTED CIRCUIT BOARD, CN-432
A-7515-216-A o MOUNTED CIRCUIT BOARD, TG-72(N)
(for DXC-327)
A-7515-217-A o MOUNTED CIRCUIT BOARD, TG-72(P)
(for DXC-327P)
A-7515-218-A o MOUNTED CIRCUIT BOARD, PA-106
A-7515-219-A o MOUNTED CIRCUIT BOARD, PA-107G
     3
     4
5
                        A-7515-220-A o MOUNTED CIRCUIT BOARD, PA-107B A-7515-221-A o MOUNTED CIRCUIT BOARD, BC-22 A-7520-515-A o MOUNTED CIRCUIT BOARD, SW-445 A-7575-155-A s CCD UNIT (N) (for DXC-327) A-7575-156-A s CCD UNIT (P) (for DXC-327P)
     67
     89
 10
                        X-3165-232-1 o COVER ASSY, BLOCK SHIELD
1-547-463-11 o FILTER UNIT, OPTICAL
1-553-739-21 s SWITCH, KEY BOARD
1-554-486-00 s SWITCH, TOGGLE "AUTO W/B BAL"
1-942-381-12 s HARNESS (LENS)
 12
 13
14
                         3-672-253-11 o RUBBER, CONDUCTIVE
3-676-244-00 s COVER, SWITCH
3-678-629-00 s LEVER, MOUNT
3-678-632-00 o PACKING, KNOB
3-678-684-00 o HOLDER, CABLE
 18
 19
 \tilde{20}
                          3-699-047-01 s KNOB, FILTER
                         3-699-106-01 o PANEL, FRONT
3-699-144-01 s CAP, MOUNT
3-699-182-01 o INSULATOR (2)
3-701-506-01 s SET SCREW, DOUBLE POINT 3X4
 22
23
24
25
                         7-621-770-87 s SCREW +B 2.6X5
7-621-772-18 s SCREW +B 2X4
7-621-773-86 s SCREW +B 2.6X4
7-627-452-28 s SCREW, PRECISION +K 2X4
7-627-552-48 s SCREW, PRECISION +P 1.7X4
 28
 29
 30
                         7-627-556-38 s SCREW +P 2.6X4.0
7-682-547-04 s SCREW +B 3X6
7-682-549-09 s SCREW +B 3X10
7-682-550-09 s SCREW +B 3X12
 32
33
```

SECTION D SPARE PARTS

PARTS INFORMATION

1. Safety Related Component Warning

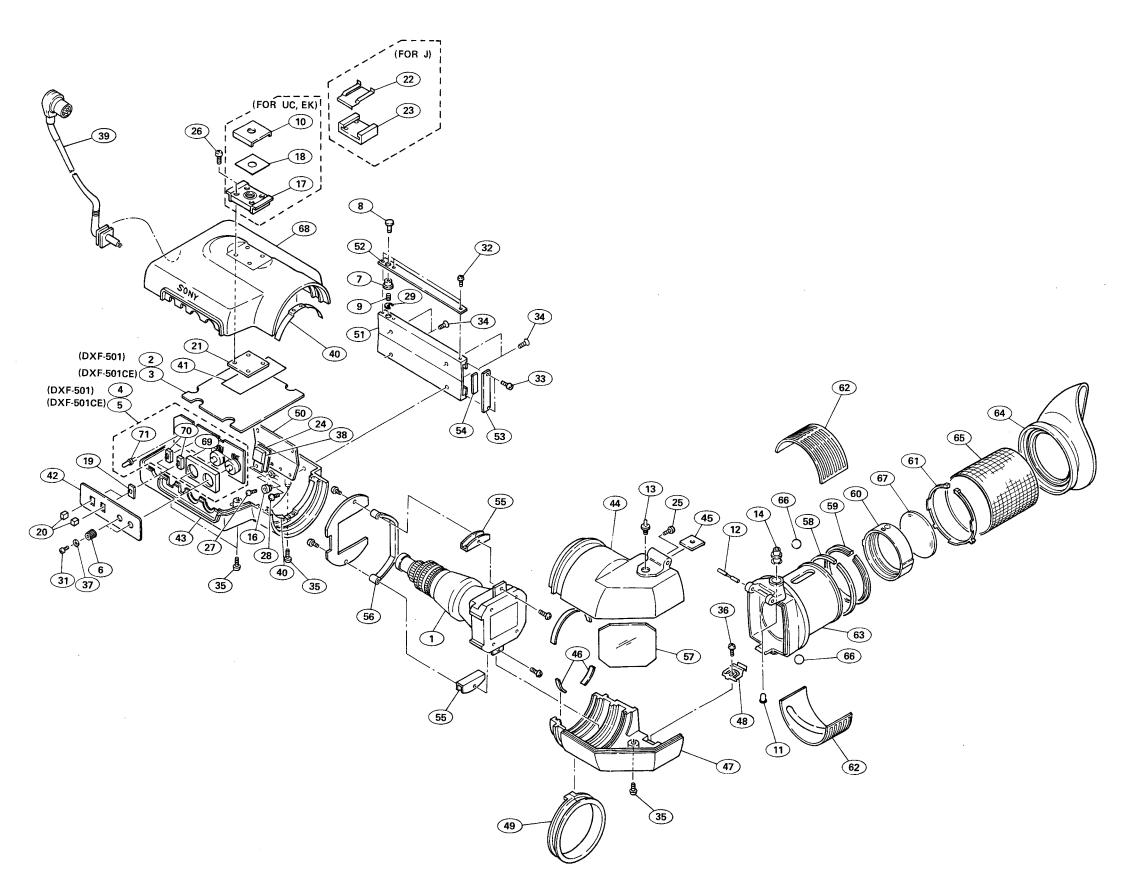
Components indentified by shading marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

- 2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual 's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
- 3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
- 4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
- All capacitors are in micro farads unless otherwise specified.
 All inductors are in micro henries unless otherwise specified.
 All resistors are in ohms.

DXF-501 (UC) DXF-501CE (EK)



EXPLODED VIEW



CHASSIS (1) BLOCK

```
Part No. SP Description
No.
                     A-7420-147-B s PAD ASSY, SHOULDER
A-7420-197-A o HANDLE ASSY
A-7520-516-A o MOUNTED CIRCUIT BOARD, SW-446
X-3664-212-2 s SHOE ASSY (B), T
X-3699-015-1 o BRACKET(B) ASSY
 101
 102
 105
                      1-542-112-11 s MICROPHONE (C-2025)
1-553-972-00 s SWITCH, TOGGLE "POWER"
1-561-320-12 s SOCKET, DIN 8P "VF"
1-561-781-11 s CONNECTOR, BNC "VIDEO OUT"
1-562-782-21 s CONNECTOR 10P FEMALE "REMOTE"
 106
 107
 109
 110
                       1-570-985-11 s SWITCH, TOGGLE "GAIN" "WB"
1-942-381-12 s HARNESS (LENS)
1-946-627-11 o HARNESS (RM)
2-277-468-01 o PLATE, ORNAMENTAL, CAMERA SHOE
3-166-292-01 o PLATE, CONNECTOR
 112
 113
 115
                       3-166-293-01 o STOPPER, PC BOARD
3-166-298-01 o LABEL, SW
3-641-622-00 s SPRING, COMPRESSION
3-657-700-00 s BRACKET, ACCESSORY
3-664-213-00 o SCREW, STOPPER
  118
  120
                        3-664-218-00 o SHUE
3-664-228-00 o PLATE, SPRING
3-672-213-00 o SHEET, ADHESIVE
3-675-963-02 s FOOT, FRONT, RUBBER
3-675-964-01 s FOOT, REAR, RUBBER
  122
  123
  124
                        3-675-965-01 s SPACER (2.6X2)
3-682-718-02 o SHOE, VF SLIDE
3-682-758-01 o SPACER
3-682-759-01 o RING, LOCK
3-682-760-01 o SCREW (M7-0.75), ADJUSTMENT
  126
  127
  128
  129
                        3-689-039-11 s BOLT (M2X6), HOLE, HEXAGON
3-699-104-01 o CABINET
3-699-110-01 o BRACKET (A)
3-699-131-01 o GUIDE, PC BOARD
3-699-145-01 o PLATE, GROUND
  132
  133
   134
   135
                        3-699-176-01 o STOPPER (2)
3-725-907-01 s BUSHING, BLIND
7-621-770-87 s SCREW +B 2.6X5
7-621-772-18 s SCREW +B 2X4
7-621-772-30 s SCREW +B 2X6
  136
  137
   138
    139
                        7-621-773-86 s SCREW +B 2.6X4
7-621-775-20 s SCREW +B 2.6X5
7-682-247-04 s SCREW +K 3X6
7-682-546-09 s SCREW +B 3X5
7-682-547-09 s SCREW +B 3X6
  142
143
    144
                        7-682-561-09 s SCREW +B 4X8
7-682-562-09 s SCREW +B 4X10
7-683-410-04 s BOLT, HEXAGON SOCKET 3X20
7-683-412-05 s BOLT, HEXAGON SOCKET 2.6X6
7-683-425-04 s BOLT, HEXAGON SOCKET 4X20
  146
  147
  148
    149
   150
                        8-814-189-31 s MICROPHONE, BUILT-IN (C-1007A) 1-562-222-41 o CONNECTOR, 6P FEMALE "LENS"
```

CHASSIS (2) BLOCK

```
SP Description
                       Part No.
No.
                      A-7420-143-A o PLATE (LEFT) ASSY, SIDE
A-7420-188-A o PLATE (RIGHT) ASSY, SIDE
A-7513-840-A o MOUNTED CIRCUIT BOARD, MX-18A(N)
(for DXC-327)
A-7513-841-A o MOUNTED CIRCUIT BOARD, CM-22(N)
(for DXC-327)
A-7513-842-A o MOUNTED CIRCUIT BOARD, BKG-4
(for DXC-327)
                                                                                                                                                                                                              236
237
238
239
                                                                                                                                                                                                                                     3-699-125-01 s KNOB, DISPCHG
3-699-137-01 s PAD (C), SIDE
3-699-170-01 o BRACKET (UPPER), AT
3-699-171-01 o BRACKET (LOWER), AT
 202
 \bar{2}0\bar{3}
                                                                                                                                                                                                               240
                                                                                                                                                                                                                                       3-699-172-01 o SHEET, STOPPER
 204
                                                                                                                                                                                                                                     3-699-179-01 o PLATE, SHIELD, IE
7-621-770-87 s SCREW +B 2.6X5
7-621-772-18 s SCREW +B 2X4
7-621-772-20 s SCREW +B 2X5
7-621-772-20 s SCREW +B 2X5
 205
                                                                                                                                                                                                              242
243
244
                       A-7513-844-A o MOUNTED CIRCUIT BOARD, MX-18A(P)
(for DXC-327P)
A-7513-845-A o MOUNTED CIRCUIT BOARD, CM-22(P)
(for DXC-327P)
A-7515-211-A o MOUNTED CIRCUIT BOARD, AT-63
A-7515-212-A o MOUNTED CIRCUIT BOARD, MB-325(N)
(for DXC-327)
A-7515-213-A o MOUNTED CIRCUIT BOARD, MB-325(P)
(for DXC-327P)
 206
                                                                                                                                                                                                                                       7-621-775-08 s SCREW +B 2.6X3
 207
                                                                                                                                                                                                                                      7-682-548-09 s SCREW +B 3X8
7-682-553-09 s SCREW +B 3X20
                                                                                                                                                                                                               246
 209
 210
                        A-7515-214-A o MOUNTED CIRCUIT BOARD, ES-2(N)
(for DXC-327)
A-7515-215-A o MOUNTED CIRCUIT BOARD, ES-2(P)
(for DXC-327P)
A-7515-223-A o MOUNTED CIRCUIT BOARD, PR-148(N)
(for DXC-327)
A-7515-224-A o MOUNTED CIRCUIT BOARD, PR-148(P)
(for DXC-327P)
A-7515-225-A o MOUNTED CIRCUIT BOARD, PR-147
  211
  212
  213
  214
  215
                          A-7515-226-A O MOUNTED CIRCUIT BOARD, VA-105R
A-7515-227-A O MOUNTED CIRCUIT BOARD, VA-105G
A-7515-228-A O MOUNTED CIRCUIT BOARD, VA-105B
A-7515-229-A O MOUNTED CIRCUIT BOARD, IE-29(N)
  216
217
  218
  219
                          A-7515-230-A o MOUNTED CIRCUIT BOARD, IE-29(P)
  220
                                                                                                                                                    (D, 1E-29(P)
(for DXC-327P)
                          1-237-518-21 s RES, ADJ, METAL 10K "PHASE SC/H"
1-553-977-00 s SWITCH, SLIDE "MARKER"
1-554-303-21 s SWITCH, KEY BOARD "REC REVIEW"
1-554-364-00 s SWITCH, SLIDE "DISP CHG"
1-570-865-11 s SWITCH, SLIDE "SHUTTER" "ZEBRA" "PHASE" "BARS"
  221
222
223
224
225
                           1-574-145-11 s WIRE, FLAT TYPE (30 CORE)
1-590-168-11 s WIRE, FLAT TYPE (16 CORE)
3-166-294-01 o FRAME, SLIDE DOOR
3-166-295-01 o DOOR, SLIDE
3-166-296-01 o PLATE, SWITCH
   226
227
228
229
                           3-167-445-01 s KNOB, SWITCH
3-168-689-01 o PLATE (2) SHIELD AT
3-672-253-11 o RUBBER, CONDUCTIVE
3-676-244-00 s COVER, SWITCH
3-699-107-01 o PLATE (RIGHT), SIDE
   231
232
   \bar{2}\bar{3}\bar{3}
   234
235
```

RESISTOR, CHIP

SP Description Part No. 1-216-295-00 s RES, CHIP 0 1-216-298-00 s RES, CHIP 2.2 1-216-302-00 s RES, CHIP 2.7 1-216-304-11 s RES, CHIP 3.3 1-216-306-11 s RES, CHIP 3.9 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 1-216-308-00 s RES, CHIP 1-216-309-00 s RES, CHIP 1-216-311-00 s RES, CHIP 1-216-313-00 s RES, CHIP 1-216-001-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 4.7 5.6 6.8 8.2 1-216-003-11 s RES, CHIP 1-216-005-00 s RES, CHIP 1-216-007-00 s RES, CHIP 1-216-009-00 s RES, CHIP 1-216-011-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 1-216-013-00 s RES, CHIP 1-216-015-00 s RES, CHIP 1-216-017-00 s RES, CHIP 1-216-019-00 s RES, CHIP 1-216-021-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 33 39 47 1-216-023-00 s RES, CHIP 1-216-025-00 s RES, CHIP 1-216-027-00 s RES, CHIP 1-216-029-00 s RES, CHIP 1-216-031-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 82 100 120 150 5% 1/10W 180 1-216-033-00 s RES, CHIP 1-216-035-00 s RES, CHIP 1-216-037-00 s RES, CHIP 1-216-039-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 220 270 330 390 1-216-041-00 s RES, CHIP 5% 1/10W 1-216-043-00 s RES, CHIP 1-216-045-00 s RES, CHIP 1-216-047-00 s RES, CHIP 1-216-049-00 s RES, CHIP 1-216-051-00 s RES, CHIP 560 5% 1/10W 680 5% 1/10W 820 5% 1/10W 1k 5% 1/10W 1.2k 5% 1/10W 1.5k 5% 1/10W 1.8k 5% 1/10W 2.2k 5% 1/10W 2.7k 5% 1/10W 3.3k 5% 1/10W 1-216-053-00 s RES, CHIP 1-216-055-00 s RES, CHIP 1-216-057-00 s RES, CHIP 1-216-059-00 s RES, CHIP 1-216-061-00 s RES, CHIP 1-216-063-00 s RES, CHIP 1-216-065-00 s RES, CHIP 1-216-067-00 s RES, CHIP 1-216-069-00 s RES, CHIP 1-216-071-00 s RES, CHIP 3.9k 5% 1/10W 4.7k 5% 1/10W 5.6k 5% 1/10W 6.8k 5% 1/10W 8.2k 5% 1/10W 1-216-073-00 s RES, CHIP 1-216-075-00 s RES, CHIP 1-216-077-00 s RES, CHIP 1-216-079-00 s RES, CHIP 1-216-081-00 s RES, CHIP 10k 12k 15k 18k 22k 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 1-216-083-00 s RES, CHIP 1-216-085-00 s RES, CHIP 1-216-748-11 s RES, CHIP 1-216-089-00 s RES, CHIP 1-216-091-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 27k 33k 39k 47k

RESISTOR, CHIP

Part No.	. SP	Desci	iption	l		
1-216-09 1-216-09 1-216-09 1-216-09 1-216-10	95-00 s 97-00 s 99-00 s	RES, RES,	CHIP CHIP CHIP CHIP CHIP	82k 100k 120k	5% 5% 5%	1/10\ 1/10\ 1/10\ 1/10\ 1/10\ 1/10\
1-216-10 1-216-10 1-216-10 1-216-10 1-216-1	05-00 s 07-00 s 09-00 s	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	220k 270k 330k	5% 5% 5%	1/10\ 1/10\ 1/10\ 1/10\ 1/10\ 1/10\
1-216-1 1-216-1 1-216-1 1-216-1 1-216-1	15-00 s 17-00 s 19-00 s	RES,	CHIP CHIP CHIP CHIP CHIP	560k 680k 820k	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-1 1-216-1 1-216-1 1-216-1 1-216-1	25-00 s 27-11 s 29-00 s	RES,	CHIP CHIP CHIP CHIP CHIP	1.5M 1.8M 2.2M	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-1	33-00 s	RES,	CHIP	3.3M	5%	1/10W

CAPACITOR, CHIP CERAMIC

Part No. SP Description 1-163-083-00 s CAP, CHIP CERAMIC 2pF +-0.25pF 50V 1-163-085-00 s CAP, CHIP CERAMIC 2pF +-0.25pF 50V 1-163-085-00 s CAP, CHIP CERAMIC 4pF +-0.25pF 50V 1-163-089-00 s CAP, CHIP CERAMIC 6pF +-0.5pF 50V 1-163-091-00 s CAP, CHIP CERAMIC 8pF +-0.5pF 50V 1-163-093-00 s CAP, CHIP CERAMIC 10pF 5% 50V 1-163-101-00 s CAP, CHIP CERAMIC 15pF 5% 50V 1-163-105-00 s CAP, CHIP CERAMIC 22pF 5% 50V 1-163-109-00 s CAP, CHIP CERAMIC 33pF 5% 50V 1-163-113-00 s CAP, CHIP CERAMIC 47pF 5% 50V 1-163-113-00 s CAP, CHIP CERAMIC 47pF 5% 50V 1-163-113-00 s CAP, CHIP CERAMIC 68pF 5% 50V 1-163-117-00 s CAP, CHIP CERAMIC 100pF 5% 50V 1-163-117-00 s CAP, CHIP CERAMIC 100pF 5% 50V

RESISTOR, CHIP METAL

Part No.	SP	Desci	riptio	on			
1-216-603-11 1-216-605-11 1-216-609-11 1-216-611-11 1-216-614-11	S S S	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	10 12 18 22 30	1% 1% 1% 1% 1%	1/10\ 1/10\ 1/10\ 1/10\ 1/10\ 1/10\
1-216-617-11 1-216-619-11 1-216-620-11 1-216-623-11 1-216-624-11	ls ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	39 47 51 68 75	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-625-11 1-216-626-11 1-216-627-11 1-216-629-11 1-216-631-11	Ls Ls Ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	82 91 100 120 150	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-633-1 1-216-634-1 1-216-635-1 1-216-636-1 1-216-637-1	ls ls ls	RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	180 200 220 240 270	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-638-1 1-216-639-1 1-216-640-1 1-216-641-1 1-216-642-1	ls ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	300 330 360 390 430	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-643-1 1-216-644-1 1-216-645-1 1-216-647-1 1-216-648-1	ls ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	470 510 560 680 750	1% 1% 1% 1% 1%	
1-216-649-11 1-216-650-11 1-216-651-11 1-216-652-11 1-216-653-11	L S L S L S	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	820 910 1.0k 1.1k 1.2k		1/10W 1/10W 1/10W 1/10W 1/10W
1-216-655-11 1-216-656-11 1-216-657-11 1-216-658-11 1-216-659-11	ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	1.5k 1.6k 1.8k 2k 2.2k	1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-660-11 1-216-661-11 1-216-662-11 1-216-663-11 1-216-664-11	S	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	2.4k 2.7k 3k 3.3k 3.5k	1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-665-11 1-216-666-11 1-216-667-11 1-216-668-11 1-216-669-11	S	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	3.9k 4.3k 4.7k 5.1k 5.6k	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W

RESISTOR, CHIP METAL

Part No. SP	Description	
1-216-670-11 s 1-216-671-11 s 1-216-672-11 s 1-216-673-11 s 1-216-674-11 s	RES, CHIP METAL 6.2k 1% 1/ RES, CHIP METAL 6.8k 1% 1/ RES, CHIP METAL 7.5k 1% 1/ RES, CHIP METAL 8.2k 1% 1/ RES, CHIP METAL 9.1k 1% 1/	10W 10W 10W
1-216-675-11 s 1-216-676-11 s 1-216-677-11 s 1-216-678-11 s 1-216-679-11 s	RES, CHIP METAL 10k 1% 1/RES, CHIP METAL 11k 1% 1/RES, CHIP METAL 12k 1% 1/RES, CHIP METAL 13k 1% 1/RES, CHIP METAL 15k 1/RES, CHIP METAL 17K 1/RES, CHIP METAL 15k 1/RES, CHIP METAL 15k 1/RES, CHIP METAL 17K 1/RES, CHIP METAL 15k 1/RES, CHIP METAL 17K 1/RES, CHIP METAL 17K 1/RES, CHIP METAL 15k 1/RES, CHIP METAL 17K 1/RE	10\\ 10\\ 10\\
1-216-680-11 s 1-216-681-11 s 1-216-682-11 s 1-216-683-11 s 1-216-684-11 s	RES, CHIP METAL 20k 1% 1/	10W 10W 10W
1-216-685-11 s 1-216-686-11 s 1-216-687-11 s 1-216-688-11 s 1-216-689-11 s	RES, CHIP METAL 36k 1% 1/	10\\ 10\\ 10\\ 10\\ 10\\ 10\\
1-216-690-11 s 1-216-691-11 s 1-216-692-11 s 1-216-693-11 s 1-216-694-11 s	RES, CHIP METAL 49k 1% 1/ RES, CHIP METAL 51k 1% 1/ RES, CHIP METAL 56k 1% 1/	'10\\' '10\\' '10\\' '10\\' '10\\'
1-216-695-11 s 1-216-696-11 s 1-216-697-11 s 1-216-698-11 s 1-216-699-11 s	RES, CHIP METAL 68k 1% 1/ RES, CHIP METAL 75k 1% 1/ RES, CHIP METAL 82k 1% 1/ RES, CHIP METAL 91k 1% 1/ RES, CHIP METAL 100k 1% 1/	10W 10W 10W

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(AT-63 BOARD)
AT-63 BOARD
Ref. No.
                                                                                                                                                                        Ref. No.
or Q'ty Part No.
                                                                                                                                                                        or Q'ty Part No. SP Description
                                                 SP Description
                                                                                                                                                                                                8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-105-90 s DIODE RD5.6M-B1
8-719-400-18 s DIODE MA152WK
8-719-800-76 s DIODE 1SS226
                        A-7515-211-A o MOUNTED CIRCUIT BOARD "AT-63"
                                                                                                                                                                        D11
1pc
                                                                                                                                                                         D12
                       1-124-234-00 s ELECT 22uF 20% 16V
1-126-154-11 s ELECT 47uF 20% 6.3V
1-126-154-11 s ELECT 47uF 20% 6.3V
1-124-229-00 s ELECT 33uF 20% 10V
1-124-229-00 s ELECT 33uF 20% 10V
                                                                                                                                                                         D13
C2
C3
                                                                                                                                                                         D14
                                                                                                                                                                         D21
Č4
C5
                                                                                                                                                                                                D23
                                                                                                                                                                         D24
                       1-124-229-00 s ELECT 33uF 20% 10V
1-126-157-11 s ELECT 10uF 20% 16V
1-163-251-11 s CERAMIC 100PF 5% 50V
1-131-347-00 s TANTALUM 1uF 10% 35V
1-131-347-00 s TANTALUM 1uF 10% 35V
                                                                                                                                                                        D25
D26
 C6
C8
C9
C10
                                                                                                                                                                         D27
                                                                                                                                                                         D28
                                                                                                                                                                                                8-719-104-34 s DIODE 1S2836
 C11
                        1-124-234-00 s ELECT 22uF 20% 16V
1-126-153-11 s ELECT 22uF 20% 6.3V
1-124-589-11 s ELECT 47uF 20% 16V
1-124-584-00 s ELECT 100uF 20% 10V
1-124-234-00 s ELECT 22uF 20% 16V
                                                                                                                                                                         IC1
IC2
IC3
                                                                                                                                                                                                8-759-300-71 s IC MC14053BF
8-759-101-12 s IC UPC311G2
C14
C16
                                                                                                                                                                                                8-759-981-65 s IC LM2903M
8-759-906-54 s IC TL064CNS
8-759-300-71 s IC MC14053BF
                                                                                                                                                                          IC4
 C18
                                                                                                                                                                         IC5
 C20
                                                                                                                                                                                                8-759-906-54 s IC TL064CNS
8-759-009-10 s IC MC14069UBF
8-759-323-26 s IC HD6305Y0E17F
8-759-977-80 s IC MB88342PF
8-759-977-80 s IC MB88342PF
                        1-126-153-11 s ELECT 22uF 20% 6.3V
1-126-153-11 s ELECT 22uF 20% 6.3V
1-126-153-11 s ELECT 22uF 20% 6.3V
1-124-234-00 s ELECT 22uF 20% 16V
 C22
C23
C24
C25
                                                                                                                                                                         ĬČ8
IC9
                                                                                                                                                                         IC10
                         1-126-153-11 s ELECT 22uf 20% 6.3V
                                                                                                                                                                         IC11
                        1-126-163-11 s ELECT 4.7MF 20% 50V
1-124-234-00 s ELECT 22uF 20% 16V
                                                                                                                                                                                                8-759-009-05 s IC MC14051BF
8-759-008-74 s IC MC14001BF
8-759-906-54 s IC TL064CNS
8-759-906-54 s IC TL064CNS
8-759-112-72 s IC UPD6142G-101
                                                                                                                                                                         IC12
                                                                                                                                                                         IC13
IC14
IC15
  C28
                                                                                                                                                                         IC16
                         1-126-160-11 s ELECT 1uF 20% 50V
1-126-160-11 s ELECT 1uF 20% 50V
1-130-489-00 s MYLAR 0.033uF 5% 50V
1-126-160-11 s ELECT 1uF 20% 50V
1-126-153-11 s ELECT 22uF 20% 6.3V
                                                                                                                                                                                                8-759-906-54 s IC TL064CNS
8-759-300-71 s IC MC14053BF
8-759-633-29 s IC M6M80011L
8-759-009-10 s IC MC14069UBF
8-759-908-17 s IC TL082CPS
                                                                                                                                                                        IC17
IC18
IC19
IC20
  C36
C37
                                                                                                                                                                         IC21
                         1-126-153-11 s ELECT 22uF 20% 6.3V
1-163-245-11 s CERAMIC 56PF 5% 50V
1-131-379-00 s TANTALUM 22uF 10% 10V
1-131-379-00 s TANTALUM 22uF 10% 10V
  C43
C45
C46
                                                                                                                                                                        L4
L5
L6
                                                                                                                                                                                                C47
                                                                                                                                                                                               8-729-216-22 s TRANSISTOR 2SA1162
8-729-216-22 s TRANSISTOR 2SA1162
8-729-216-22 s TRANSISTOR 2SA1162
8-729-100-66 s TRANSISTOR 2SC1623
8-729-402-19 s TRANSISTOR XN6501
                          1-126-157-11 s ELECT 10uF 20% 16V
                                                                                                                                                                        Q1
Q2
Q3
Q4
Q5
                         1-126-157-11 s ELECT 10uF 20% 16V

1-124-234-00 s ELECT 22uF 20% 16V

1-126-153-11 s ELECT 22uF 20% 6.3V

1-126-157-11 s ELECT 10uF 20% 16V

1-126-157-11 s ELECT 10uF 20% 16V
  C53
C62
  C63
                                                                                                                                                                                               8-729-402-19 s TRANSISTOR XN6501
8-729-100-66 s TRANSISTOR 2SC1623
8-729-402-84 s TRANSISTOR XN4601
8-729-402-84 s TRANSISTOR XN4601
                                                                                                                                                                        Q6
Q7
Q8
                         1-126-157-11 s ELECT 10uF 20% 16V
1-126-153-11 s ELECT 22uF 20% 6.3V
1-131-365-00 s TANTALUM 10uF 10% 20V
1-126-160-11 s ELECT 1uF 20% 50V
1-126-157-11 s ELECT 10uF 20% 16V
  C69
C70
                                                                                                                                                                                                8-729-109-41 s TRANSISTOR 2SK94-X1
                                                                                                                                                                         Q10
  C79
  C80
                                                                                                                                                                                                8-729-100-66 s TRANSISTOR 2SC1623
                                                                                                                                                                                               8-729-402-19 s TRANSISTOR XN6501
8-729-403-32 s TRANSISTOR XN6534
                                                                                                                                                                         Q12
                                                                                                                                                                        \bar{Q}\bar{1}\bar{3}
                         1-124-589-11 s ELECT 47uF 20% 16V
  C82
                                                                                                                                                                                               8-729-402-84 s TRANSISTOR XN4601
8-729-402-19 s TRANSISTOR XN6501
                                                                                                                                                                        014
                         1-566-516-11 s CONNECTOR, FPC (ZIF) 16P
1-565-210-11 s CONNECTOR, FPC (ZIF) 30P
1-506-467-11 o CONNECTOR, 2P, MALE
1-506-468-11 o CONNECTOR, 3P, MALE
                                                                                                                                                                        Ž20
  CN2
                                                                                                                                                                                               8-729-402-19 s TRANSISTOR XN6501
  CN3
                                                                                                                                                                                               8-729-100-66 s TRANSISTOR 2SC1623
                         1-141-245-00 s CAP, TRIMMER 30PF
                                                                                                                                                                                               1-231-387-00 s COMPOSITION CIRCUIT BLOQ
  CV1
                                                                                                                                                                        RB1
                         8-719-800-76 s DIODE 1SS226
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
                                                                                                                                                                                               1-237-603-11 s RES, ADJ, METAL 2.2K
1-237-606-11 s RES, ADJ, METAL 22K
1-237-603-11 s RES, ADJ, METAL 2.2K
1-237-518-21 s RES, ADJ, METAL 10K
1-237-518-21 s RES, ADJ, METAL 10K
                                                                                                                                                                       RV2
RV3
  D3
  D5
  Ď9
                                                                                                                                                                        RV4
  D10
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(AT-63 BOARD)

Ref. No. or Q'ty	Part No. SP Description
RV6	1-230-528-11 s RES, ADJ, METAL 220K
\$1 \$2 \$3 \$4 \$5	1-570-865-11 s SWITCH, SLIDE 1-553-977-00 s SWITCH, SLIDE 1-554-303-21 s SWITCH, TACTILE 1-570-865-11 s SWITCH, SLIDE 1-570-865-11 s SWITCH, SLIDE
\$7 \$8 \$9 \$10	1-570-854-11 s SWITCH, SLIDE 1-570-865-11 s SWITCH, SLIDE 1-554-364-00 s SWITCH, SLIDE 1-570-865-11 s SWITCH, SLIDE
X 1	1-567-192-11 s RESONATOR, CERAMIC 4.00MHz

BC-22 BOARD

L1

1-408-413-00 s INDUCTOR 22uH

CM-22 BOARD

CM-ZZ DUARD			
Ref. No. or Q'ty	Part No. SP Description		
C1	1-163-251-11 s CERAMIC 100PF 5% 50V		
C2	1-135-164-21 s TANTAL 22uF 20% 10V		
C4	1-163-251-11 s CERAMIC 100PF 5% 50V		
C5	1-135-164-21 s TANTAL 22uF 20% 10V		
C7	1-163-114-00 s CERAMIC, CHIP 75PF 5% 50V		
C9	1-163-114-00 s CERAMIC, CHIP 75PF 5% 50V		
C11	1-163-251-11 s CERAMIC 100PF 5% 50V		
CN1	1-566-095-11 s PIN, BOARD TO BOARD 5P		
IC1	8-759-906-59 s IC CX22017		
Q1	8-729-100-66 s TRANSISTOR 2SC1623		
Q2	8-729-100-66 s TRANSISTOR 2SC1623		
Q3	8-729-100-66 s TRANSISTOR 2SC1623		
RV1	1-228-394-00 s RES, ADJ, METAL 4.7K		
RV2	1-228-394-00 s RES, ADJ, METAL 4.7K		

CN-432 B	DARD	DR-107 B	OARD	
Ref. No.	Part No. SP Description	Ref. No. or Q'ty	Part No. SP	Description
1pc C4 C5 C6 C15	A-7515-210-A o MOUNTED CIRCUIT BOARD "CN-432" 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V	C1 C2 C3 C9 C11	1-135-076-21 s	TANTAL 10uF 20% 25V TANTALUM, CHIP 1uF 10% 35V TANTALUM, CHIP 1uF 10% 35V TANTALUM, CHIP 10uF 10% 20V CERAMIC 22PF 5% 50V
CN1 CN2 CN3 CN4 CN5	1-563-691-21 o CONNECTOR, BOARD TO BOARD 18P 1-563-687-21 o CONNECTOR, BOARD TO BOARD 14P 1-565-160-11 o PIN, CONNECTOR (ANGLE) 13P 1-565-150-11 o PIN, CONNECTOR (ANGLE) 3P 1-565-160-11 o PIN, CONNECTOR (ANGLE) 13P	C14 C15 C16 C17 C20	1-135-164-21 s 1-135-216-11 s 1-163-102-00 s	TANTAL 3.3uF 20% 25V TANTAL 22uF 20% 10V TANTAL 10uF 20% 10V TANTAL 22uF 20% 10V
CN6 CN7 CN8	1-565-151-11 o CONNECTOR, 4P, MALE 1-565-160-11 o PIN, CONNECTOR (ANGLE) 13P 1-565-150-11 o PIN, CONNECTOR (ANGLE) 3P	C21 C22 C23	1-135-076-21 s	TANTAL 3.3uF 20% 25V TANTALUM, CHIP 1uF 10% 35V TANTAL 33uF 10% 16V
D1 D2 D3 D5 D6	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	CN1 CN2 CN3 CN4	1-566-280-21 o	CONNECTOR, BOARD TO BOARD 11P CONNECTOR, BOARD TO BOARD 18P CONNECTOR, BOARD TO BOARD 14P CONNECTOR, BOARD TO BOARD 12P
D7 IC1	8-719-400-18 s DIODE MA152WK 8-759-243-06 s IC TC74AC04F	D1 D2 D4 D5	8-719-800-76 s 8-719-400-18 s 8-719-400-18 s 8-719-400-18 s	DIODE MA152WK DIODE MA152WK
Î Č2 Q1 Q2 Q3 Q4	8-759-243-06 s IC TC74AC04F 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-140-47 s TRANSISTOR 2SC3735-L-B35 8-729-112-65 s TRANSISTOR 2SA1462	IC1 IC2 IC3 IC4 IC5	8-759-925-80 s 8-759-925-76 s 8-759-100-95 s 8-752-327-46 s 8-752-327-46 s	IC SN74HC14NS IC SN74HC08NS IC UPC324G2 IC CXD1250M
-		IC6	8-752-327-46 s	IC CXD1250M
		L1 L2 L3 L4	1-408-781-00 s 1-408-765-21 s 1-408-781-00 s 1-408-781-00 s	INDUCTOR CHIP 1UH CHIP 22uH
		Q1 Q2 Q3 Q4 Q5	8-729-100-66 s 8-729-100-66 s 8-729-100-66 s	TRANSISTOR 2SC3617 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC3735-L-B35
		Q6 Q7 Q8 Q9 Q10	8-729-140-47 s 8-729-100-66 s	TRANSISTOR 2SA1462 TRANSISTOR 2SA1462 TRANSISTOR 2SC3735-L-B35 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162
		Q11	8-729-216-22 s	TRANSISTOR 2SA1162
		RV1 RV2 RV3 RV4	1-230-873-11 s 1-230-873-11 s	RES, ADJ, METAL 47K RES, ADJ, METAL 47K RES, ADJ, METAL 47K RES, ADJ, METAL 1K

D-18

S1

1-572-328-31 s SWITCH, CHIP

ES-2(P)		(ES-2(P)	BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc	A-7515-215-A o MOUNTED CIRCUIT BOARD "ES-2(P)"	IC6 IC7	1-808-513-12 s IC IB-38 8-759-907-81 s IC SN74LS221NS
C1 C2 C3 C4 C5	1-124-589-11 s ELECT 47uF 20% 16V 1-126-154-11 s ELECT 47uF 20% 6.3V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	IC8 IC9 IC10	8-741-134-00 s IC BX-1340 1-808-514-11 s IC IB-37 8-752-332-67 s IC CXD1217M
	1-163-086-00 s CERAMIC, CHIP 3PF 50V	IC11 IC12	8-759-209-90 s IC TC4S71F 8-759-209-15 s IC TC4SU69F
C6 C8 C9 C10 C13	1-126-157-11 s ELECT 10uF 20% 16V 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-124-584-00 s ELECT 100uF 20% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V	L1 L2 L3 L4 L6	1-408-781-00 s CHIP 22uH 1-408-777-00 s CHIP 10uH 1-408-781-00 s CHIP 22uH 1-408-781-00 s CHIP 22uH 1-408-781-00 s CHIP 22uH
C14 C15 C16 C17 C18	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-163-251-11 s CERAMIC 100PF 5% 50V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-085-21 s TANTALUM, CHIP 4.7uF 10% 25V 1-126-157-11 s ELECT 10uF 20% 16V	L7 L8 L9 L10 L11	1-408-781-00 s CHIP 22uH 1-408-781-00 s CHIP 22uH 1-408-785-21 s CHIP 47uH 1-408-781-00 s CHIP 22uH 1-408-785-21 s CHIP 47uH
C19 C20 C21 C22 C23	1-163-224-11 s CERAMIC 7PF 0.25PF 50V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V	L12 L13 L14 L15 L16	1-408-785-21 s CHIP 47uH 1-408-783-00 s CHIP 33uH 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH
C24 C26 C28 C29 C30	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-164-21 s TANTAL 22uF 20% 10V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-126-176-11 s ELECT 220uF 20% 10V	L17 L18 L19 L20 L101	1-408-785-21 s CHIP 47uH 1-408-783-00 s CHIP 33uH 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH 1-408-777-00 s CHIP 10uH
C34 C36	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	L201	1-408-785-21 s CHIP 47uH
C37 C38 C39	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V 1-135-164-21 s TANTAL 22uF 20% 10V	LV1	1-408-844-00 s INDUCTOR, VAR, 22uH
C41 C42 C44 C46 C56	1-135-085-21 s TANTALUM, CHIP 4.7uF 10% 25V 1-131-381-00 s TANTALUM 47uF 10% 10V 1-126-176-11 s ELECT 220uF 20% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	Q1 Q2 Q3 Q4 Q5	8-729-402-84 s TRANSISTOR XN4601 8-729-402-19 s TRANSISTOR XN6501 8-729-122-63 s TRANSISTOR 2SA1226 8-729-402-19 s TRANSISTOR XN6501 8-729-402-78 s TRANSISTOR XN6401
C60 C61 C63 C64 C70	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-163-245-11 s CERAMIC 56PF 5% 50V 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	Q6 Q7 Q8 Q9 Q11	8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162 8-729-402-19 s TRANSISTOR XN6501 8-729-100-66 s TRANSISTOR 2SC1623
C81 C203	1-135-085-21 s TANTALUM, CHIP 4.7uF 10% 25V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-565-780-11 o CONNECTOR, TX(P.L)(PC BOARD)50P	Q12 Q13 Q14 Q15 Q20	8-729-402-19 s TRANSISTOR XN6501 8-729-402-19 s TRANSISTOR XN6501 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-109-41 s TRANSISTOR 2SK94-X1
CP1	1-577-183-11 s OSCILLATOR, CRYSTAL	RV1	1-230-523-11 s RES, ADJ, METAL 10K
D1 D2	8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836	RV2 RV3 RV4 RV6	1-230-519-11 s RES, ADJ, METAL 470 1-230-521-11 s RES, ADJ, METAL 2.2K 1-230-519-11 s RES, ADJ, METAL 470 1-230-522-11 s RES, ADJ, METAL 4.7K
DL1	1-415-370-11 s DELAY LINE (340NS)	RV7	1-230-521-11 s RES, ADJ, METAL 2.2K
FL1	1-235-181-00 s FILTER, BANDPASS 4.43MHz 8-759-710-24 s IC NJM319M_		
IC1 IC2 IC3 IC4 IC5	8-739-710-24 \$ 1C NJM313M 8-759-300-71 \$ IC MC14053BF 8-759-204-57 \$ IC TC40H076AF 8-759-009-10 \$ IC MC14069UBF 1-807-836-11 \$ HYBRID-IC (SYNC SEP)		

IX €-327P(EK)

IE-29(P)	BOARD	(IE-29(P) BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc	A-7515-230-A o MOUNTED CIRCUIT BOARD "IE-29(P)"	IC3 8-759-300-71 s IC MC14053BF IC4 8-759-300-71 s IC MC14053BF
C1 C5 C7	1-124-584-00 s ELECT 100uF 20% 10V 1-163-227-11 s CERAMIC 10PF 5% 50V 1-131-377-00 s TANTALUM 10uF 10% 10V	IC5 8-759-702-02 s IC NJM062M IC6 8-752-332-69 s IC CXL5504M IC7 8-759-926-28 s IC SN74HC174NS
C12	1-131-303-00 & TANTALOM TOUR 10% 20%	TCS 8-759-925-72 s TC SN74HC02NS
C19 C21 C23	1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-124-589-11 s FLECT 47uF 20% 16V	IC10 8-759-702-02 s IC NJM062M L1 1-408-425-00 s INDUCTOR 220uH
C24 C26	1-124-589-11 s ELECT 47uF 20% 16V 1-126-096-11 s ELECT 10uF 20% 35V	L2 1-408-413-00 s INDUCTOR 22uH L3 1-408-413-00 s INDUCTOR 22uH L4 1-408-413-00 s INDUCTOR 22uH
C28 C29 C33	1-131-347-00 s TANTALUM 1uF 10% 35V 1-131-365-00 s TANTALUM 10uF 10% 20V	L5
C34 C36	1-163-103-00 s CERAMIC, CHIP 27PF 5% 50V 1-126-163-11 s ELECT 4.7MF 20% 50V	L8 1-408-414-00 s INDUCTOR 27uH L9 1-408-416-00 s INDUCTOR 39uH L11 1-408-414-00 s INDUCTOR 27uH
C37 C38	1-124-234-00 s ELECT 22uF 20% 16V 1-131-347-00 s TANTALUM 1uF 10% 35V	L12 1-408-418-00 s INDUCTOR 56uH L13 1-408-429-00 s INDUCTOR 470uH
C39 C42 C44	1-163-100-00 S CERMIC, CHIP 39FF 5% 50V 1-124-584-00 S ELECT 100uF 20% 10V 1-124-589-11 S ELECT 47uF 20% 16V 1-124-589-11 S ELECT 47uF 20% 16V 1-126-096-11 S ELECT 10uF 20% 35V 1-131-347-00 S TANTALUM 1uF 10% 35V 1-131-365-00 S TANTALUM 10uF 10% 20V 1-163-227-11 S CERAMIC 10PF 5% 50V 1-163-103-00 S CERAMIC, CHIP 27PF 5% 50V 1-126-163-11 S ELECT 4.7MF 20% 50V 1-124-234-00 S ELECT 22uF 20% 16V 1-131-347-00 S TANTALUM 1uF 10% 35V 1-131-347-00 S TANTALUM 1uF 10% 35V 1-131-347-00 S TANTALUM 1uF 10% 35V 1-126-096-11 S ELECT 10uF 20% 35V 1-126-096-11 S ELECT 10uF 20% 35V	L14 1-408-413-00 s INDUCTOR 22uH L15 1-408-413-00 s INDUCTOR 22uH L16 1-408-780-21 s INDUCTOR CHIP 18uH
U47	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V	Q1 8-729-100-66 s TRANSISTOR 2SC1623 Q2 8-729-175-73 s TRANSISTOR 2SC2757
C49 C50 C51	1-163-092-00 s 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V 1-163-115-00 s CERAMIC, CHIP 82PF 5% 50V	Q1 8-729-100-66 s TRANSISTOR 2SC1623 Q2 8-729-175-73 s TRANSISTOR 2SC2757 Q3 8-729-175-73 s TRANSISTOR 2SC2757 Q4 8-729-122-63 s TRANSISTOR 2SC1226 Q5 8-729-122-63 s TRANSISTOR 2SA1226
C52 C53 C56	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V 1-163-235-11 s CERAMIC 22PF 5% 50V	Q6 8-729-175-73 s TRANSISTOR 2SC2757 Q7 8-729-175-73 s TRANSISTOR 2SC2757
C58 C60	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-126-096-11 s ELECT 10uF 20% 35V	08 8-729-109-41 s TRANSISTOR 28K94-X1 09 8-729-175-73 s TRANSISTOR 28C2757 010 8-729-175-73 s TRANSISTOR 28C2757
C70 C71 C72	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V 1-131-377-00 s <u>TANTALUM</u> 10uF 10% 10V	Q11 8-729-175-73 s TRANSISTOR 28C2757 Q12 8-729-175-73 s TRANSISTOR 28C2757
C74 C75	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V 1-131-377-00 s TANTALUM 10uF 10% 10V 1-126-096-11 s ELECT 10uF 20% 35V 1-131-347-00 s TANTALUM 1uF 10% 35V	013 8-729-175-73 \$ TRANSISTOR 2802757 014 8-729-175-73 \$ TRANSISTOR 2802757 015 8-729-175-73 \$ TRANSISTOR 2802757
C77 C78	1-131-344-00 s TANTALUM 0.33uF 10% 35V 1-131-365-00 s TANTALUM 10uF 10% 20V 1-131-377-00 s TANTALUM 10uF 10% 10V	Q16 8-729-100-66 s TRANSISTOR 2SC1623 Q17 8-729-100-66 s TRANSISTOR 2SC1623
C80 C82 C85	1-126-163-11 s ELECT 4.7MF 20% 50V 1-126-096-11 s ELECT 10uF 20% 35V	018 8-729-216-22 s TRANSISTOR 28A1162 019 8-729-216-22 s TRANSISTOR 28A1162 021 8-729-100-66 s TRANSISTOR 28C1623
C86 C88	1-126-096-11 s ELECT 10uF 20% 35V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-126-096-11 s ELECT 10uF 20% 35V	Q22 8-729-100-66 s TRANSISTOR 2SC1623 Q23 8-729-216-22 s TRANSISTOR 2SA1162
C91 C92 C93	1-120-030-11 S ELECT TOUT 20% 33% 20V 1-131-365-00 s TANTALUM 10uF 10% 20V 1-131-365-00 s TANTALUM 10uF 10% 20V	024 8-729-100-66 s TRANSISTOR 2SC1623 025 8-729-100-66 s TRANSISTOR 2SC1623 026 8-729-216-22 s TRANSISTOR 2SA1162
C94 C95	1-163-086-00 s CERAMIC, CHIP 3PF 50V 1-163-096-00 s CERAMIC, CHIP 13PF 5% 50V	Q27 8-729-216-22 s TRANSISTOR 2SA1162 Q28 8-729-100-66 s TRANSISTOR 2SC1623
CN1 CN2	1-566-268-21 o CONNECTOR, BOARD TO BOARD 6P 1-566-275-21 o CONNECTOR, BOARD TO BOARD 13P	Q29 8-729-100-66 s TRANSISTOR 25C1623 Q30 8-729-100-66 s TRANSISTOR 25C1623 Q31 8-729-100-66 s TRANSISTOR 25C1623
D1 D4 D5	8-719-800-76 s DIODE 1SS226 8-719-101-97 s DIODE 1SS97-1 8-719-101-97 s DIODE 1SS97-1	Q32 8-729-100-66 s TRANSISTOR 2SC1623 Q33 8-729-100-66 s TRANSISTOR 2SC1623
Db DL1	1-415-305-81 s DELAY LINE (1H)	Q34 8-729-100-66 s TRANSISTOR 2SC1623 Q35 8-729-100-66 s TRANSISTOR 2SC1623
IC1 IC2	8-759-981-51 s IC RC1496M 8-759-031-58 s IC SC7SU04F	Q36 8-729-100-66 s TRANSISTOR 2SC1623 Q37 8-729-100-66 s TRANSISTOR 2SC1623

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(IE-29(P) BOARD)
Ref. No.
                                                       SP Description
or Q'ty Part No.
                       8-729-109-41 s TRANSISTOR 2SK94-X1
8-729-100-66 s TRANSISTOR 2SC1623
8-729-216-22 s TRANSISTOR 2SA1162
8-729-175-73 s TRANSISTOR 2SC2757
8-729-175-73 s TRANSISTOR 2SC2757
Q39
Q40
Q41
Q42
                        8-729-100-66 s TRANSISTOR 2SC1623
8-729-216-22 s TRANSISTOR 2SA1162
8-729-216-22 s TRANSISTOR 2SA1162
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
Q43
Q44
Q45
Q46
Q48
                        8-729-100-66 s TRANSISTOR 2SC1623
8-729-216-22 s TRANSISTOR 2SA1162
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-216-22 s TRANSISTOR 2SA1162
 Q49
Q50
Q51
Q52
Q53
                        8-729-216-22 s TRANSISTOR 2SA1162
8-729-216-22 s TRANSISTOR 2SA1162
8-729-100-66 s TRANSISTOR 2SC1623
  Q54
Q55
Q56
Q57
                          8-729-175-73 s TRANSISTOR 2SC2757
                          1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W
  R43
                          1-226-703-11 s RES, ADJ, METAL 10K
1-226-771-11 s RES, ADJ, METAL 1K
1-238-221-11 s RES, ADJ, METAL 2.2K
1-228-519-00 s RES, ADJ, METAL 2.2K
1-226-770-11 s RES, ADJ, METAL 470
   RV2
   RV3
                          1-237-603-11 s RES, ADJ, METAL 2.2K
   RV6
                          1-553-977-00 s SWITCH, SLIDE
   SI
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MB-325(P) BOARD
Ref. No. or Q'ty Part No. SP Description
                        A-7515-213-A o MOUNTED CIRCUIT BOARD "MB-325(P)"
1pc
                        1-124-584-00 s ELECT 100uF 20% 10V
1-124-148-00 s ELECT 100uF 20% 25V
1-124-148-00 s ELECT 100uF 20% 25V
1-124-148-00 s ELECT 100uF 20% 25V
Č3
C7
Č8
                         1-163-227-11 s CERAMIC 10PF 5% 50V
C9
                        1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-216-11 s TANTAL 10uF 20% 10V 1-135-216-11 s TANTAL 10uF 20% 10V
C18
                        1-565-781-11 0 CONNECTOR, TX(S.S) (PC BOARD) 50P
1-565-781-11 0 CONNECTOR, TX(S.S) (PC BOARD) 50P
1-566-579-11 0 CONNECTOR, MULTI 50P
1-566-516-11 s CONNECTOR, FPC (ZIF) 16P
1-506-490-21 s CONNECTOR, 11P, MALE
 CN2
 CN3
 CN4
 CN5
                        1-506-471-11 o CONNECTOR, 6P, MALE
1-566-199-11 o PIN, CONNECTOR (PC BOARD) 6P
1-506-467-11 o CONNECTOR, 2P, MALE
1-506-487-11 o CONNECTOR, 8P, MALE
1-569-202-31 o HOUSING, CONNECTOR 9P
 CN6
 CN7
 CN8
 CN9
                         1-569-191-11 o TERMINAL, SOLDERLESS 1-569-193-11 s CONTACT
                         1-560-356-00 o CONNECTOR POST HEADER, ILG (2P) MAL 1-561-514-00 o HOUSING, ILG 2P FEMALE 1-560-372-00 o CONTACT, AWG22-28
 CN10
                         1-506-468-11 o CONNECTOR, 3P, MALE
1-506-488-11 s CONNECTOR, 9P, MALE
1-506-481-11 o CONNECTOR, 2P, MALE
1-506-481-11 o CONNECTOR, 2P, MALE
1-506-481-11 o CONNECTOR, 2P, MALE
  CN11
 CN13
CN14
CN15
  CN16
                          1-506-481-11 o CONNECTOR, 2P, MALE
1-562-147-11 s HOUSING, 2P
  CN17
                          1-569-193-11 s CONTACT
                         1-506-472-11 o CONNECTOR, 7P, MALE
1-506-482-11 o CONNECTOR, 3P, MALE
1-565-210-11 s CONNECTOR, FPC (ZIF) 3 OP
  CN19
  CN21
                         8-719-815-85 s DIODE 1S1585
8-719-815-85 s DIODE 1S1585
8-719-105-90 s DIODE RD5.6M-B1
  D2
D3
                          8-759-209-90 s IC TC4S71F
8-759-209-69 s IC TC4S11F
8-759-150-17 s IC CXD8154M
                          1-408-096-00 s 470uH
1-408-096-00 s 470uH
1-408-767-21 s INDUCTOR CHIP 1.5uH
  L1
L2
                          1-466-426-11 s CONVERTER UNIT, DC-DC
  PU1
                          8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-216-22 s TRANSISTOR 2SA1162
  Q1
Q2
Q3
Q4
Q5
  Q6
Q7
Q8
Q9
Q10
                          8-729-109-41 s TRANSISTOR 2SK94-X1
8-729-100-66 s TRANSISTOR 2SC1623
8-729-140-75 s TRANSISTOR 2SD999-CLC
8-729-101-07 s TRANSISTOR 2SB798
8-729-216-22 s TRANSISTOR 2SA1162
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(MB-325(P) BOARD)

Ref. No. or Q'ty	Part No. SP	Description
011 012 013 014	8-729-216-22 s 8-729-100-66 s	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162
R21	1-249-399-11 s	CARBON 33 5% 1/4W
R22	1-249-399-11 s	CARBON 33 5% 1/4W
R27 ▲	1-216-369-00 s	METAL 1 5% 2W
\$1	1-553-977-00 s	SWITCH, SLIDE
\$2	1-553-977-00 s	SWITCH, SLIDE

MX-18 BOARD

WV-19 DA	AKD
Ref. No. or Q'ty	Part No. SP Description
C1 C3 C4 C11	1-163-224-11 s CERAMIC 7PF 0.25PF 50V 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-164-21 s TANTAL 22uF 20% 10V
CN1 CN2	1-566-095-11 s PIN, BOARD TO BOARD 5P 1-566-095-11 s PIN, BOARD TO BOARD 5P
L1 L2	1-408-795-21 s CHIP 330uH 1-408-795-21 s CHIP 330uH
Q2 Q3 Q4	8-729-403-29 s TRANSISTOR XN6435 8-729-402-16 s TRANSISTOR XN4608 8-729-402-19 s TRANSISTOR XN6501 8-729-100-66 s TRANSISTOR 2SC1623 8-729-402-78 s TRANSISTOR XN6401
Q7	8-729-402-19 s TRANSISTOR XN6501 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-402-78 s TRANSISTOR XN6401
R1 R2 R3 R12 R13	1-218-254-11 s METAL CHIP 2.55K 0.50% 1/10W 1-218-257-11 s METAL CHIP 4.99K 0.50% 1/10W 1-218-259-11 s METAL CHIP 13.7K 0.50% 1/10W 1-218-254-11 s METAL CHIP 2.55K 0.50% 1/10W 1-218-259-11 s METAL CHIP 13.7K 0.50% 1/10W
R26 R27	1-218-254-11 s METAL CHIP 2.55K 0.50% 1/10W 1-218-257-11 s METAL CHIP 4.99K 0.50% 1/LOW
RV1 RV2 RV3 RV4	1-238-220-11 s RES, ADJ, METAL 1K 1-238-222-11 s RES, ADJ, METAL 4.7K 1-238-221-11 s RES, ADJ, METAL 2.2K 1-238-219-11 s RES, VAR, METAL 470

PA-106 B	OARD	PA-107B BOARD		
Ref. No.	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description	
1pc	A-7515-218-A o MOUNTED CIRCUIT BOARD "PA-106"	1pc	A-7515-220-A o MOUNTED CIRCUIT BOARD "PA-107B"	
2pcs	1-565-164-11 o CONTACT, FEMALE AWG26-28	2pcs	1-565-164-11 o CONTACT, FEMALE AWG26-28	
2pcs	1-566-987-11 o CONTACT, AWG28-32	2pcs	1-566-987-11 o CONTACT, AWG28-32	
1pc	1-569-193-11 s CONTACT	1pc	1-569-193-11 s CONTACT	
C1	1-569-193-11 s CONTACT 1-135-154-21 s TANTAL 3.3uF 20% 20V 1-135-152-21 s TANTAL 1.5uF 10% 25V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-135-164-21 s TANTAL 22uF 20% 10V	C1	1-135-154-21 s TANTAL 3.3uF 20% 20V	
C2		C2	1-135-152-21 s TANTAL 1.5uF 10% 25V	
C3		C3	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V	
C4		C4	1-135-177-21 s TANTALUM CHIP 1uF 10% 25V	
C6		C6	1-135-164-21 s TANTAL 22uF 20% 10V	
C8	1-135-164-21 s TANTAL 22uF 20% 10V	C8	1-135-164-21 s TANTAL 22uF 20% 10V	
C9	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C9	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	
C19	1-135-211-11 s TANTAL 6.8uF 20% 6.3VW	C19	1-135-211-11 s TANTAL 6.8uF 20% 6.3VW	
C22	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C22	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	
C27	1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V	C27	1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V	
C30	1-135-215-21 s TANTAL 6.8uF 20% 16V	C30	1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V	
C31	1-124-584-00 s ELECT 100uF 20% 10V	C31	1-124-584-00 s ELECT 100uF 20% 10V	
CN1	1-565-794-11 o HOUSING, 13P	CN1	1-565-794-11 o HOUSING, 13P	
CN2	1-566-989-11 o HOUSING, 3P	CN2	1-566-989-11 o HOUSING, 3P	
CN7	1-565-132-11 o HOUSING, 13P	CN7	1-565-132-11 o HOUSING, 13P	
CN8	1-565-122-11 o HOUSING, 3P	CN8	1-565-122-11 o HOUSING, 3P	
CN14	1-562-147-11 s HOUSING, 2P	CN16	1-562-147-11 s HOUSING, 2P	
Q1	8-729-175-73 s TRANSISTOR 2SC2757	Q1	8-729-175-73 s TRANSISTOR 2SC2757	
Q2	8-729-216-22 s TRANSISTOR 2SA1162	Q2	8-729-216-22 s TRANSISTOR 2SA1162	
Q3	8-765-930-08 s TRANSISTOR 3SK163-2	Q3	8-765-930-08 s TRANSISTOR 3SK163-2	
Q4	8-729-100-66 s TRANSISTOR 2SC1623	Q4	8-729-100-66 s TRANSISTOR 2SC1623	
Q5	8-729-216-22 s TRANSISTOR 2SA1162	Q5	8-729-216-22 s TRANSISTOR 2SA1162	
Q6	8-765-930-08 s TRANSISTOR 3SK163-2	Q9	8-765-930-08 s TRANSISTOR 3SK163-2	
Q10	8-729-100-66 s TRANSISTOR 2SC1623	Q10	8-729-100-66 s TRANSISTOR 2SC1623	
Q11	8-729-216-22 s TRANSISTOR 2SA1162	Q11	8-729-216-22 s TRANSISTOR 2SA1162	
Q12	8-765-930-08 s TRANSISTOR 3SK163-2	Q15	8-765-930-08 s TRANSISTOR 3SK163-2	
Q13	8-729-100-66 s TRANSISTOR 2SC1623	Q16	8-729-100-66 s TRANSISTOR 2SC1623	
Q17	8-729-100-66 s TRANSISTOR 2SC1623	Q17	8-729-100-66 s TRANSISTOR 2SC1623	
Q18	8-729-100-66 s TRANSISTOR 2SC1623	Q18	8-729-100-66 s TRANSISTOR 2SC1623	
Q19	8-729-100-66 s TRANSISTOR 2SC1623	Q19	8-729-100-66 s TRANSISTOR 2SC1623	
Q20	8-729-100-66 s TRANSISTOR 2SC1623	Q20	8-729-100-66 s TRANSISTOR 2SC1623	
Q21	8-729-216-22 s TRANSISTOR 2SA1162	Q21	8-729-216-22 s TRANSISTOR 2SA1162	
Q 22	8-729-100-66 s TRANSISTOR 2SC1623	Q22	8-729-100-66 s TRANSISTOR 2SC1623	
Q 24	8-729-100-66 s TRANSISTOR 2SC1623	Q24	8-729-100-66 s TRANSISTOR 2SC1623	
		R33	1-216-628-11 s METAL, CHIP 110 0.5% 1/10W	

D-23

DXC- 327P(EK)

PA-107G	BOARD	PR-147 B	
Ref. No.	Part No. SP Description	Ref. No.	
1pc 2pcs 2pcs 1pc	A-7515-219-A O MOUNTED CIRCUIT BOARD "PA-107G" 1-565-164-11 O CONTACT, FEMALE AWG26-28 1-566-987-11 O CONTACT, AWG28-32 1-569-193-11 S CONTACT	C2 C3 C4 C9	1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-163-224-11 s CERAMIC 7PF 0.25PF 50V
C1 C2 C3 C4 C6	1-135-154-21 s TANTAL 3.3uF 20% 20V 1-135-152-21 s TANTAL 1.5uF 10% 25V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-135-164-21 s TANTAL 22uF 20% 10V	C12 C14 C15 C16 C17	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-163-088-00 s CERAMIC, CHIP 5PF 50V 1-135-216-11 s TANTAL 10uF 20% 10V 1-135-216-11 s TANTAL 10uF 20% 10V
C8 C9 C19 C22 C27	1-135-164-21 s TANTAL 22uF 20% 10V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-211-11 s TANTAL 6.8uF 20% 6.3VW 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V	C18 CN1 CN2	1-163-235-11 s CERAMIC 22PF 5% 50V 1-566-095-11 s PIN, BOARD TO BOARD 5P 1-566-095-11 s PIN, BOARD TO BOARD 5P
C30 C31	1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V 1-124-584-00 s ELECT 100uF 20% 10V	D1 D2 D3	8-719-104-34 s DIODE 132836 8-719-104-34 s DIODE 132836 8-719-104-34 s DIODE 132836
CN1 CN2 CN6 CN7 CN15	1-565-794-11 o HOUSING, 13P 1-566-990-11 o HOUSING, 4P 1-565-123-11 o HOUSING, 4P 1-565-132-11 o HOUSING, 13P 1-562-147-11 s HOUSING, 2P	IC1 Q1 Q2 Q3 Q4 Q5	8-759-906-53 s IC TL062CPS 8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757
Q1 Q2 Q3 Q4 Q5	8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	Q4 Q5 Q6 Q7 Q8 Q9 Q10	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-109-41 s TRANSISTOR 2SK94-X1 8-729-122-63 s TRANSISTOR 2SA1226 8-729-100-66 s TRANSISTOR 2SC1623
Q6 Q7 Q8 Q9 Q10	8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623	Q10 Q11 RV1 RV2	8-729-402-78 s TRANSISTOR XN6401 8-729-403-29 s TRANSISTOR XN6435 8-729-403-32 s TRANSISTOR XN6534 1-238-219-11 s RES, VAR, METAL 470 1-238-222-11 s RES, ADJ, METAL 4.7K
Q11 Q12 Q13 Q14 Q15	8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2	K 4 2	1-200-222-11 S NEO, MUJ, MEIAL 4./N
Q16 Q17 Q18 Q19 Q20	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623		
021 022 024	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623		
R33	1-216-632-11 s METAL, CHIP 160 0.5% 1/10W		

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(PR-148(P) BOARD)
PR-148(P) BOARD
                                                                                                                                                                        Ref. No. or Q'ty Part No. SP Description
Ref. No. or Q'ty Part No. SP Description
                                                                                                                                                                                               8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
                                                                                                                                                                        019
020
021
022
                       A-7515-224-A o MOUNTED CIRCUIT BOARD "PR-148(P)"
                       1-126-157-11 s ELECT 10uF 20% 16V
1-163-227-11 s CERAMIC 10PF 5% 50V
1-124-589-11 s ELECT 47uF 20% 16V
1-124-472-11 s ELECT 470uF 20% 10V
1-124-471-00 s ELECT 1000uF 20% 6.3V
C9
C14
C24
C25
                                                                                                                                                                                                8-729-100-66 s TRANSISTOR 2SC1623
                                                                                                                                                                                                8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-901-46 s TRANSISTOR DTA114YK
8-729-216-22 s TRANSISTOR 2SA1162
                                                                                                                                                                         Q24
Q25
Q26
Q31
Q32
                        1-124-471-00 s ELECT 1000uF 20% 6.3V

1-126-157-11 s ELECT 10uF 20% 16V

1-124-589-11 s ELECT 47uF 20% 16V

1-126-157-11 s ELECT 10uF 20% 16V

1-126-157-11 s ELECT 10uF 20% 16V
 C26
C37
                                                                                                                                                                                                 8-729-100-66 s TRANSISTOR 2SC1623
 C39
 C41
                                                                                                                                                                                                 8-729-100-66 s TRANSISTOR 2SC1623
8-729-109-41 s TRANSISTOR 2SK94-X1
 C42
                        1-126-157-11 s ELECT 10uF 20% 16V
1-124-472-11 s ELECT 470uF 20% 10V
1-163-251-11 s CERAMIC 100PF 5% 50V
                                                                                                                                                                                                1-226-703-11 s RES, ADJ, METAL 10K
1-226-771-11 s RES, ADJ, METAL 1K
                                                                                                                                                                         RV2
                                                                                                                                                                          RV3
                         1-563-679-21 o CONNECTOR, BOARD TO BOARD 6P
1-563-686-21 o CONNECTOR, BOARD TO BOARD 13P
1-565-780-11 o CONNECTOR, TX(P.L)(PC BOARD)50P
                                                                                                                                                                         RV4
                                                                                                                                                                                                 1-238-222-11 s RES, ADJ, METAL 4.7K
1-238-222-11 s RES, ADJ, METAL 4.7K
1-238-222-11 s RES, ADJ, METAL 4.7K
1-226-702-00 s RES, ADJ, METAL 2.2K
1-226-702-00 s RES, ADJ, METAL 2.2K
                         8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-104-34 s DIODE 1S2836
8-719-104-34 s DIODE 1S2836
8-719-914-12 s DIODE HZ4BLL
                                                                                                                                                                          RV7
  D1
                                                                                                                                                                         RV8
  D2
                                                                                                                                                                          RV9
  \bar{D}\bar{3}
                                                                                                                                                                          RV10
  D4
  D6
                                                                                                                                                                                                 1-226-702-00 s RES, ADJ, METAL 2.2K
1-238-225-11 s RES, ADJ, METAL 47K
                         8-719-914-12 s DIODE HZ4BLL
8-719-914-12 s DIODE HZ4BLL
8-719-104-34 s DIODE 132836
                                                                                                                                                                          RV12
  D7
                                                                                                                                                                          RV13
   D8
                                                                                                                                                                          RV14
RV15
   D9
                          8-719-104-34 s DIODE 1S2836
   D10
                                                                                                                                                                                                  1-238-225-11 s RES, ADJ, METAL 47K
                          1-415-307-00 s 165nS
1-415-307-00 s 165nS
1-415-307-00 s 165nS
                                                                                                                                                                          RV16
                                                                                                                                                                          RV17
                                                                                                                                                                          RV18
   DL3
                                                                                                                                                                          RV19
                          8-759-204-40 s IC TC40H027F
8-759-201-50 s IC TC40H193F
8-759-906-54 s IC TL064CNS
8-759-201-53 s IC TC40H000F
8-759-209-97 s IC TC4S81F
                                                                                                                                                                          RV20
   IC2
IC3
IC4
                                                                                                                                                                          RV21
                                                                                                                                                                                                  1-238-225-11 s RES, ADJ, METAL 47K
1-238-225-11 s RES, ADJ, METAL 47K
                                                                                                                                                                          RV22
    IC5
                           8-759-209-97 s IC TC4S81F
8-759-209-97 s IC TC4S81F
8-759-300-71 s IC MC14053BF
8-759-209-97 s IC TC4S81F
8-759-209-69 s IC TC4S11F
    IC6
    IC7
    Īč8
    IC9
                                                                                                                                                                          SW-445 BOARD
     IC10
                                                                                                                                                                          Ref. No. or Q'ty Part No. SP Description
                           8-759-209-97 s IC TC4S81F
8-759-209-54 s IC TC4S01F
8-759-209-15 s IC TC4SU69F
     IC12
     IC13
                                                                                                                                                                                                  A-7520-515-A o MOUNTED CIRCUIT BOARD "SW-445" 1-569-193-11 s CONTACT
                                                                                                                                                                          1pc
                           1-409-427-11 s FILTER, TRAP 14.3MHz
                                                                                                                                                                          1pc
    LP1
                                                                                                                                                                                                  1-569-195-11 o HOUSING, CONNECTOR 2P
1-569-195-11 o HOUSING, CONNECTOR 2P
                                                                                                                                                                           CN3
                            8-729-216-22 s TRANSISTOR 2SA1162
    Q1
Q2
Q3
Q4
Q5
                           8-729-109-41 s TRANSISTOR 25K94-X1
8-729-100-66 s TRANSISTOR 25C1623
8-729-100-66 s TRANSISTOR 25C1623
8-729-100-66 s TRANSISTOR 25C1623
                                                                                                                                                                          CN8
                                                                                                                                                                                                  1-553-739-21 s SWITCH, TACTILE
1-553-739-21 s SWITCH, TACTILE
1-553-739-21 s SWITCH, TACTILE
                           8-729-100-66 s TRANSISTOR 2SC1623
8-729-901-46 s TRANSISTOR DTA114YK
8-729-900-52 s TRANSISTOR DTC114YK
8-729-900-52 s TRANSISTOR DTC114YK
8-729-216-22 s TRANSISTOR 2SA1162
     Q6
Q7
Q8
Q9
Q10
                                                                                                                                                                          SW001
                                                                                                                                                                                                 1-554-486-00 s SWITCH, TOGGLE
                           8-729-216-22 s TRANSISTOR 2SA1162
8-729-216-22 s TRANSISTOR 2SA1162
8-729-100-66 s TRANSISTOR 2SC1623
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SW-446 B	OARD			VA-105B	BOARD			
Ref. No. or Q'ty	Part No.	SP	Description	Ref. No. or Q'ty	Part	No.	SP	Description
1pc 1pc 1pc 1pc	1-562-736-1 1-564-831-1 1-569-193-1	1 0 1 0 1 s		C1 C2 C3 C9	1-16 1-16 1-13	3-088-0 3-088-0 5-216-1	0 s 0 s 1 s	CERAMIC 22PF 5% 50V CERAMIC, CHIP 5PF 50V CERAMIC, CHIP 5PF 50V TANTAL 10UF 20% 10V
CN4			HOUSING, 3P	C10				TANTAL 10uF 20% 10V
\$1 \$2	1-570-985-1 1-570-985-1	1 8	SWITCH, TOGGLE SWITCH, TOGGLE	C13 C14 C15 C18 C19	1-13 1-13 1-13	5-159-2 5-072-2 5-149-2	1 s 1 s 1 s	CERAMIC, CHIP 5PF 50V TANTALUM, CHIP 10uF 10% 20V TANTALUM, CHIP 0.22uF 10% 35V TANTALUM, CHIP 2.2uF 10% 10V CERAMIC 100PF 5% 50V
TG-72(P)	BOARD			C20 C21 C23	1-13	5-145-1	1 s	TANTALUM, CHIP 0.22uF 10% 35V TANTALUM, CHIP 0.47uF 10% 35V TANTAL 10uF 20% 10V
Ref. No.	Part No.	SP	Description	CN1 CN2	1-56 1-56	6-095-1 6-095-1	1 s 1 s	PIN, BOARD TO BOARD 5P PIN, BOARD TO BOARD 5P
1pc	A-7515-217-	-A o	MOUNTED CIRCUIT BOARD "TG-72(P)"	D4 D5				DIODE 1S2836 DIODE 1S2836
C4 C7 C9 C19	1-163-251-1 1-135-125-2 1-135-161-2 1-135-125-2	11 s 21 s 21 s 21 s	CERAMIC 100PF 5% 50V TANTALUM, CHIP 33uF 20% 10V TANTALUM, CHIP 22uF 10% 10V TANTALUM, CHIP 33uF 20% 10V	IC1 IC2	8-75	9-981-5	1 s	IC RC1496M IC TL062CPS
CN1 CN2 CN3 CN4			CONNECTOR, BOARD TO BOARD 11P CONNECTOR, BOARD TO BOARD 12P CONNECTOR, BOARD TO BOARD 11P CONNECTOR, BOARD TO BOARD 11P	Q1 Q2 Q3 Q4 Q5	8-72 8-72 8-72	9-109-4 9-100-6 9-100-6	1 s 6 s 6 s	TRANSISTOR 2SK94-X1 TRANSISTOR 2SK94-X1 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1226
CP1	1-577-182-1	11 s	OSCILLATOR, CRYSTAL 28.375MHz	Q6 Q7	8-72 8-72	9-100-6 9-216-2	6 s	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162
IC1 IC2 IC3	8-759-925-8 8-759-985-1	83 s 18 s	IC CXD1255Q IC SN74HC27NS IC 74AC08SJ IC SN74HC04NS	08 09 011	8-72 8-72	9-402-1 9-109-4	9 s 1 s	TRANSISTOR XN6501 TRANSISTOR 2SK94-X1 TRANSISTOR 2SK94-X1
IC4 IC5	8-759-925-7	76 s	IC SN74HC08NS	Q14 Q15	8-72 8-72	9-122-6 9-175-7	3 s	TRANSISTOR 2SA1226 TRANSISTOR 2SC2757
IC6	8-759-031-4	43 s	IC SC14S81F	017 018	8-72	9-216-2	2 s	TRANSISTOR 2SA1162 TRANSISTOR 2SK94-X1
L1 L2	1-408-781-0 1-408-781-0	00 s 00 s	CHIP 22uH CHIP 22uH	R18				METAL, CHIP 1.3K 0.5% 1/LOW

VA-105G		VA-105R	BOARD
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
C1	1-163-235-11 s CERAMIC 22PF 5% 50V	C1	1-163-235-11 s CERAMIC 22PF 5% 50V
C9	1-135-216-11 s TANTAL 10uF 20% 10V	C9	1-135-216-11 s TANTAL 10uF 20% 10V
C10	1-135-216-11 s TANTAL 10uF 20% 10V	C10	1-135-216-11 s TANTAL 10uF 20% 10V
C13	1-163-088-00 s CERAMIC, CHIP 5PF 50V	C13	1-163-088-00 s CERAMIC, CHIP 5PF 50V
C14	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	C14	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C15	1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V	C15	1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V
C18	1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V	C18	1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V
C19	1-163-251-11 s CERAMIC 100PF 5% 50V	C19	1-163-251-11 s CERAMIC 100PF 5% 50V
C20	1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V	C20	1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V
C21	1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V	C21	1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V
C23	1-135-216-11 s TANTAL 10uF 20% 10V	C23	1-135-216-11 s TANTAL 10uF 20% 10V
C25	1-163-086-00 s CERAMIC, CHIP 3PF 50V	C25	1-163-086-00 s CERAMIC, CHIP 3PF 50V
CN1	1-566-095-11 s PIN, BOARD TO BOARD 5P	CN1	1-566-095-11 s PIN, BOARD TO BOARD 5P
CN2	1-566-095-11 s PIN, BOARD TO BOARD 5P	CN2	1-566-095-11 s PIN, BOARD TO BOARD 5P
D4	8-719-104-34 s DIODE 1S2836	D4	8-719-104-34 s DIODE 1S2836
D5	8-719-104-34 s DIODE 1S2836	D5	8-719-104-34 s DIODE 1S2836
IC1	8-759-981-51 s IC RC1496M	IC1	8-759-981-51 s IC RC1496M
IC2	8-759-906-53 s IC TL062CPS	IC2	8-759-906-53 s IC TL062CPS
Q1	8-729-109-41 s TRANSISTOR 2SK94-X1	Q1	8-729-109-41 s TRANSISTOR 2SK94-X1
Q2	8-729-109-41 s TRANSISTOR 2SK94-X1	Q2	8-729-109-41 s TRANSISTOR 2SK94-X1
Q3	8-729-100-66 s TRANSISTOR 2SC1623	Q3	8-729-100-66 s TRANSISTOR 2SC1623
Q4	8-729-100-66 s TRANSISTOR 2SC1623	Q4	8-729-100-66 s TRANSISTOR 2SC1623
Q5	8-729-122-63 s TRANSISTOR 2SA1226	Q5	8-729-122-63 s TRANSISTOR 2SA1226
Q6	8-729-100-66 s TRANSISTOR 2SC1623	Q6	8-729-100-66 s TRANSISTOR 2SC1623
Q7	8-729-216-22 s TRANSISTOR 2SA1162	Q7	8-729-216-22 s TRANSISTOR 2SA1162
Q8	8-729-402-19 s TRANSISTOR XN6501	Q8	8-729-402-19 s TRANSISTOR XN6501
Q9	8-729-109-41 s TRANSISTOR 2SK94-X1	Q9	8-729-109-41 s TRANSISTOR 2SK94-X1
Q11	8-729-109-41 s TRANSISTOR 2SK94-X1	Q11	8-729-109-41 s TRANSISTOR 2SK94-X1
Q14	8-729-122-63 s TRANSISTOR 2SA1226	Q14	8-729-122-63 s TRANSISTOR 2SA1226
Q15	8-729-175-73 s TRANSISTOR 2SC2757	Q15	8-729-175-73 s TRANSISTOR 2SC2757
Q17	8-729-216-22 s TRANSISTOR 2SA1162	Q17	8-729-216-22 s TRANSISTOR 2SA1162
Q18	8-729-109-41 s TRANSISTOR 2SK94-X1	Q18	8-729-109-41 s TRANSISTOR 2SK94-X1
R18	1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W	R18	1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W

DX(-327P(EK)

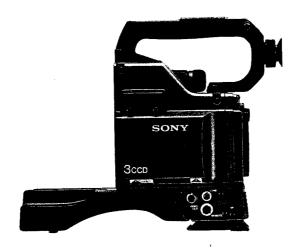
```
FRAME

Ref. No. or Q'ty Part No. SP Description

1-542-112-11 s MICROPHONE (C-2025)
1-547-463-11 o FILTER UNIT, OPTICAL
1-574-145-11 s WIRE, FLAT TYPE (30 CORE)
1-590-168-11 s WIRE, FLAT TYPE (16 CORE)
1-942-381-12 s HARNESS (LENS)
1-946-627-11 o HARNESS (RM)
8-814-189-31 s MICROPHONE, BUILT-IN (C-1007D)

CN101 1-562-782-21 s RECEPTACLE, 10P FEMALE "REMOTE"
1-569-193-11 s CONTACT
1-569-191-11 o TERMINAL, SOLDERLESS
CN102 1-561-320-00 s SOCKET, DIN 8P "VF"
CN104 1-562-222-41 s CONNECTOR, SP, FEMALE
1-562-151-11 o HOUSING, 6P
1-569-193-11 s CONTACT
CN105 1-561-781-11 s CONNECTOR, BNC, FEMALE
S102 1-553-972-00 s TOGGLE "POWER"
```

COLOR VIDEO CAMERA



SPECIFICATIONS

Camera head (DXC-327/327P)

Image device Interline-transfer CCD, 3-chip

Picture elements

768 × 494 (h/v) (NTSC)

752 × 582 (h/v) (PAL)

Sensing area 6.4 mm × 4.8 mm (equivalent to a ½-inch

pickup tube)

Built-in filters 1: 3200 K

2: 5600 K + 1/8 ND

3: 5600 K

Lens mount Bayonet mount

Signal system EIA standards, NTSC color system

(for DXC-327)

CCIR standards, PAL color system

(for DXC-327P)

Scanning system

525 lines, 2:1 interlace, 30 frames/sec.

(NTSC)

625 lines, 2:1 interlace, 25 frames/sec.

(PAL)

Scanning frequency

Horizontal: 15.734 kHz (NTSC)

15.625 kHz (PAL)

Vertical: 59.94 Hz (NTSC)

50.00 Hz (PAL)

Sync system Internal

External with the BS or VBS signal supplied to the GEN LOCK IN connector (When the CA-327/327P, CA-325/325P, CA-325A/325AP or CA-325B isused) or the reference signal input to the VTR/CCU/CMA connector from the GEN LOCK IN connector of the CCLLM3/M3P IM/hen the

connector of the CCU-M3/M3P (When the CA-327/327P or CA-325/325 is used)

Horizontal resolution

700 lines (center)

Minimum illumination

20 lux with F1.4, + 18 dB

Sensitivity 2000 lux with F5.0, at 3200 K Gain selection 0 dB, 9 dB or 18 dB, selectable

Video output Composite signal:

1.0 Vp-p, sync negative,

75 Ω unbalanced Y/C separate signal:

Y: 1.0 Vp-p, sync negative,

unbalanced

C: burst level 0.286 Vp-p (NTSC)

0.3 Vp-p (PAL)

without sync

Signal to noise ratio

60 dB (NTSC) 58 dB (PAL)

Registration 0.05 % for Zone I

0.05 % for Zone II 0.05 % for Zone III



Inputs/Outputs VIDEO OUT: BNC-type

LENS: 1/2-inch lens connector (7-pin)
2/3-inch lens connector (6-pin)

VF: 8-pin

REMOTE: 10-pin

Power requirements

12 V DC

Power consumption

8 W

Operating temperature

-5°C to +45°C (23°F to 113°F)

Storage temperature

-20°C to +60°C (-4°F to 140°F)

Weight

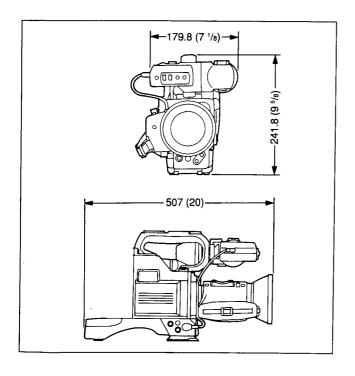
2 kg (4 lb 7 oz)

Dimensions

See the illustrations below.

Unit: mm (inches)

Dimensions



Carrying case (LC-420)

Weight

About 7.7 kg (15 lb 7 oz)

Dimensions

About $790 \times 440 \times 340$ mm (w/h/d)

 $(31^{1}/8 \times 17^{3}/8 \times 13^{1}/2 \text{ inches})$

Accessories supplied

CCQ-2BRS camera cable (with Q-type 14-pin connectors) (supplied with the DXC-327K/327PK/327L/327PL only) (1)

VCL-712BX zoom lens (supplied with the DXC-327K/327PK only) (1)

DXF-327/327CE electronic viewfinder (supplied with the

DXC-327K/327PK/327L/327PL only) (1)

LC-420 carrying case (supplied with the DXC-327K/327PK/

327L/327PL only) (1)

VCT-12 tripod attachment (supplied with the DXC-327K/ 327PK/327L/327PL only) (1)

Lens cap (1)

Chart for flange focal length adjustment (1)

Design and specifications are subject to change without notice.

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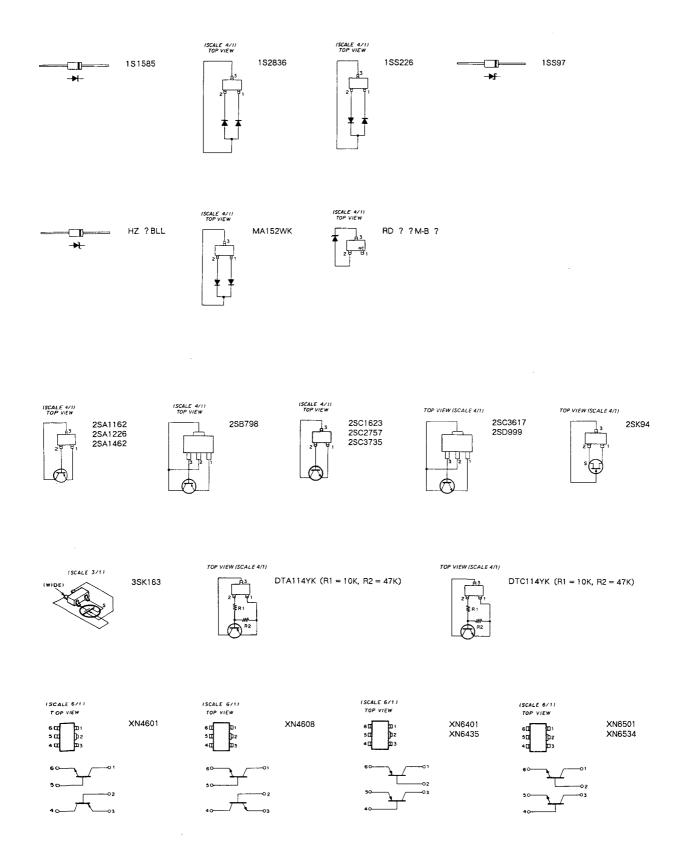
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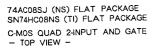
SECTION B SEMICONDUCTOR

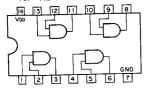
The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

The circuit diagram of	ic is obtained	nom the le data book	r public.
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1\$2836	· B-2	SN74HC04NS······	
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1SS97 · · · · · · · · · · · · · · · · · · ·	· B-2	SN74HC174NS	· ⋅ B-10
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JU1000 !!			

DIODE, TRANSISTOR









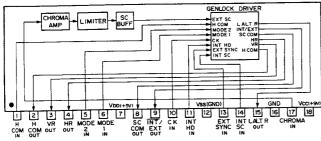
A	•	1		
0	0	0		
0	ī	0		
t	0	0	O: LOW	LEVEL
1	1	1	1; HIGH	LEVE
	00	0 0	0 1 0	000

NOTE Voo OTHER TYPES

BX1340 (SONY)

SC LIMITER AND GENLOCK DRIVER

- REAR VIEW -

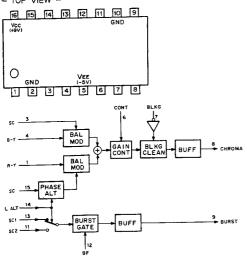


MODE SELECTION MODE 1 MODE 2 MODE							
1	1	NTSC					
0	0	PAL					
O; LOW LEVEL							

CX22017 (SONY)

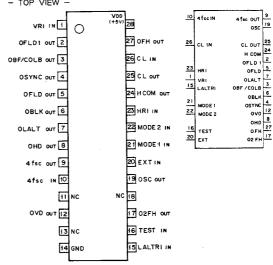
VIDEO SIGNAL PROCESSOR

- TOP VIEW -

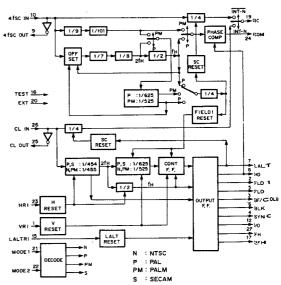


CXD1217M (SONY) FLAT PACKAGE

C-MOS SYNC GENERATOR - TOP VIEW -

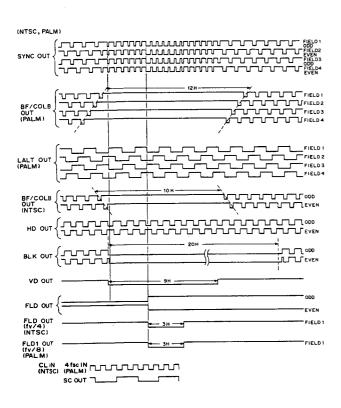


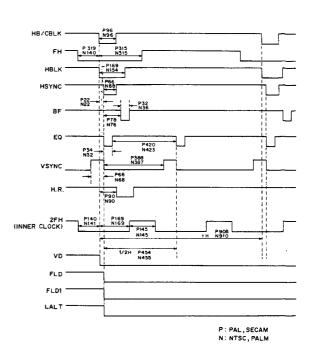
STEM	4fsc	CLOCK	INF	TU	SYS
NTSC	910fH	910fн	MODE1	MODE2	313
PAL	1135fn+2fv	908fн	0	0	NΊ
PALM	909fH	910fн	0	1	SE
SECAM		908fн	1	0	PA
			1	1	P

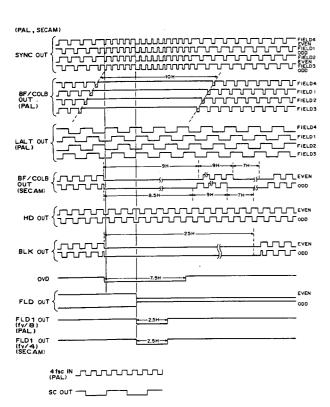


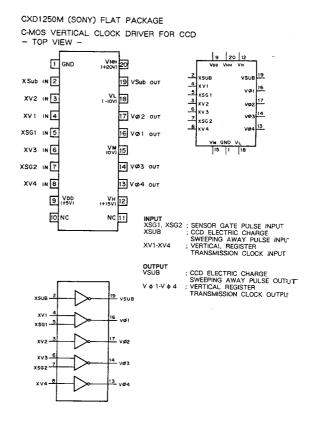
INPUT 4fSC IN CL IN EXT ; 4fSC INPUT ; CLOCK INPUT ; SYNC MODE SELECT (L; INTERNAL/H; EXTERNAL) ; H RESET ; LINE CHANGE RESET ; SYSTEM SELECT ; V RESET HRI LALTRI MODE 1,2 VRI

OUT PUT
41SC OUT :
CL OUT :
HCOM :
O2fH OBF/COLB:
OBLK OFH :
OFLD :
OFLD :
OHD :
OLALT :
OSYNC :
OYD : : 4fSC OUTPUT
: CLOCK OUTPUT
: PHASE COMPARATOR
: 2fH OUTPUT
B. BURST FLAG/COLOR SLANKING
: OMPOSITE SLANKING
: H FREQUENCE
: EVEN. ODD
: FIELD!
: H DRIVE
: LINE CHANGE
: SUBCARRIER
: COMPOSITE SYNC
: V DRIVE



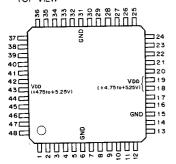






CXD1255Q (SONY) FLAT PACKAGE

C-MOS SCANNING SYSTEM TIMING SIGNAL GENERATOR FOR CCD CAMERA - TOP VIEW -

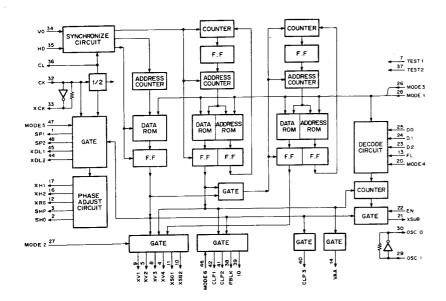


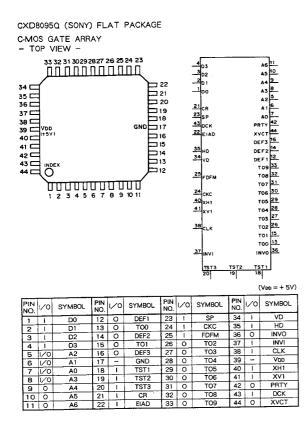
PIN NO.	1/0	SIGNAL									
1	0	SP1	13	1	FL	25	1	D0	37		TEST2
2	ō	SHD	14	0	VAA	26	1	MODE3	38	0	PBLK
3	ő	SHP	15		GND	27		MODE2	39	0	ID
4	ō	XV4	16	0	XH2	28	I	MODE1	40	0	CLP3
5	0	XV2	17	0	XH1	29	-	OSCI	41	0	CLP2
6	-	GND	18	-	VDD	30	0	osco	42	0	CLP1
7	t =	TEST1	19	-	VDD	31	-	GND	43	_	VDD
8	ò	XV3	20	TT"	MODE4	32		CK	44	0	XDL2
9	0	XV1	21	0	XSUB	33	0	XCK	45	0	XDL1
10	0	XSG2	22	T	EN	34	1	VD	46	1	MODE6
11	10	XSG1	23	T	D2	35	T	HD	47	1	MODE5
12	0	XRG	24	1	DI	36	0	CL	48	0	SP2

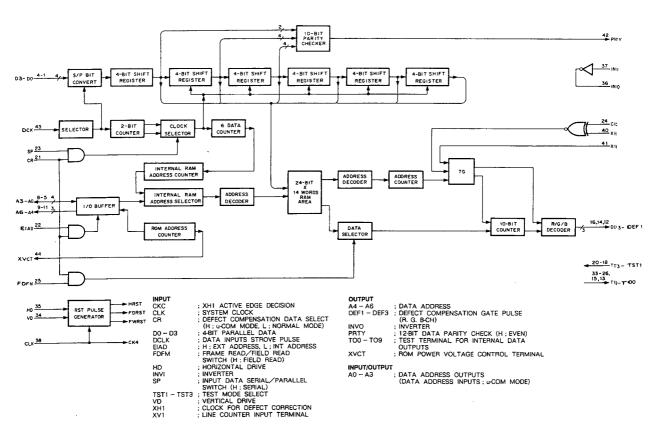
34	VD	XV1	9
	HD	XV2	5
- 1		XV3	8
25	DO	XV4	4_
24	D1		
23	D2	XSG1	111
		X5G 2	10
28	MODE		l
27	MODE2	SP1	<u>, </u>
26	MODES	\$P2	48
20	MODE4	XDL t	45
47	MODE5	XDL2	44
46	MODE6		
		XH 1	17
13	FL	XH2	16
		XRG	12
7	TESTI	SHP	3
37	TEST2	SHD	2
22			21
	EN	XSUB	
		CLP1	42
	1	GLP2	41
	1	CLP3	40
	l	CLPS	[
	l	PBLK	38
		10	30
	l	VAA	
29	osci	0800	30
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32	ск	xck	33
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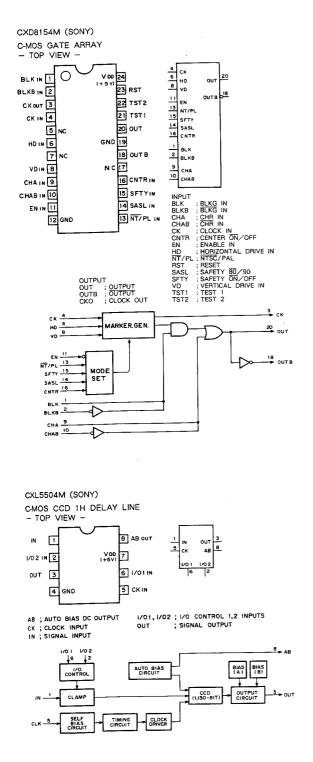
INPUT	
CK	: INVERTER INPUT FOR DUTY CONTROL
011	(MAIN CLOCK)
D0 - D2	ELECTRONIC SHUTTER SPEED CHANGE
EN DE	ELECTRONIC SHUTTER ON/OFF
CIA	(0: OFF 1: ON)
FL	ELECTRONIC SHUTTER FLICKER LESS
HD	HORIZONTAL DRIVE PULSE
HU	COLOR/MONOCHROME (B/W) CHANGE
MODE1	(0: COLOR 1: B/W)
	: FIELD FRAME STORAGE CHANGE
MODE2	
	(0; FIELD 1; FRAME)
MODE3	: NTSC/PAL CHANGE (0; NTSC 1; PAL)
MODE4	ELECTRONIC SHUTTER SPEED INPUT SELECT
	(0; SELIAL IN 1; PARALLEL IN)
MODE5	: COLOR/MONOCHROME (B/W) CHANGE
	(0; COLOR 1; B/W)
MODE6	; PBLK CONTROL PULSE
	(0; NARROW 1; WIDE)
OSCI	: INVERTER INPUT FOR OSCILLATOR
	: OPEN
	: GND
VD	: VERTICAL DRIVE SIGNAL

OUTPUT	
CL	: CLOCK OUTPUT FOR SYNC GENERATOR
OL 01 - CL 03	CLAMP PULSE
ID	LINE DISCRIMINATE PULSE
טו	, LINE DISCRIMINATE TOLLO





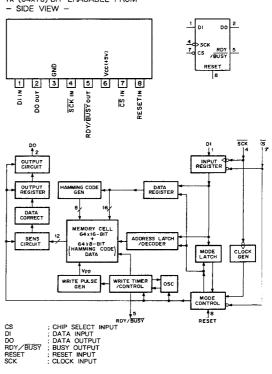




LM2903M (RAYTHEON) FLAT PACKAGE
DUAL VOLTAGE COMPARATORS

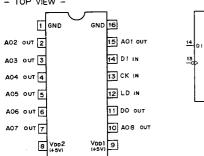
- TOP VIEW
- 8 7 6 5

- VCC
-

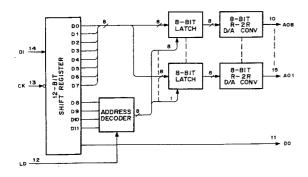


MB88342PF (FUJITSU) FLAT PACKAGE

C-MOS 8-BIT D/A CONVERTER TOP VIEW -



A08: 8-BIT D/A OUTPUTS
: CLOCK INPUT
: SERIAL DATA INPUT
: DATA OUTPUT
: DATA LOAD CONTROL INPUT (H:LOAD)

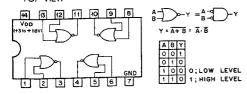


A02 A03 A04 A05 A06

AO:

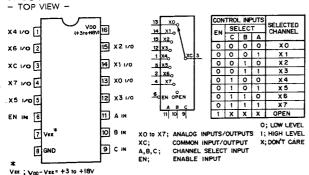
MC14001BF (MOTOROLA) FLAT PACKAGE

C-MOS 2-INPUT NOR GATE - TOP VIEW



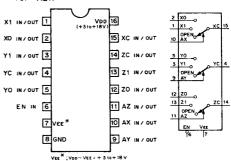
MC14051BF (MOTOROLA) FLAT PACKAGE

C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER



MC14053BF (MOTOROLA) FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -

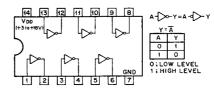


		T. INPUTS	ON
	EN	A (X,Y,Z,)	CHANNEL
O: LOW LEVEL	6	0	0
1 HIGH LEVEL	0	1	1
X; DON'T CARE.	1	X	OPEN

MC14069UBF (MOTOROLA) TC4069UBF (TOSHIBA) FLAT PACKAGE

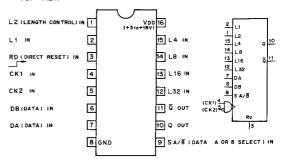
C-MOS INVERTER

- TOP VIEW -



MC14557BF (MOTOROLA) FLAT PACKAGE

C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER – TOP VIEW –



LENGTH SELECT TRUTH TABLE

L32	L16	L8	L4	L2	L1	REGISTER LENGTH
0	0	0	0	0	٥	1 - BIT
0	0	0	0	0	1	2 - BIT
0	0	0	0	1	0	3 - BIT
0	0	0	0	1	1	4 - BIT
0	0	0	1	0	0	5-BIT
:		1 !	1			,
1	1.	;			:	
Ш	:	1	- [-	. :	1
1	1	1	1	0	0	61 - BIT
1	1	1	1	0	1	62 - BIT
1	1	1	1	1	0	63 - BIT
1	1	1	1	1	1	64~BIT

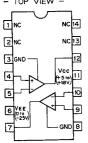
	NPL	OUTPUT		
RD	SAT	CK1	CK2	Q
0	0	<u>-</u>	0	DB
Ó	1.	Կ	0	DA
0	0	1	٦	DB
0	1	1	þ	DA
1	х	X	х	0

O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

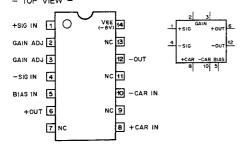
NJM062M (JRC) FLAT PACKAGE TL062CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (JFET INPUT) — TOP VIEW —



NJM319M (JRC) FLAT PACKAGE DUAL VOLTAGE COMPARATOR - TOP VIEW -

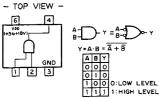


RC1496M (RAYTHEON) FLAT PACKAGE BALANCED MODULATOR/DEMODULATOR

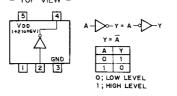


SC14S81F (MOTOROLA) FLAT PACKAGE TC4S81F (TOSHIBA) FLAT PACKAGE

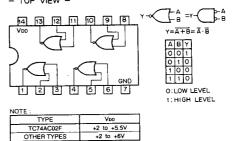
C-MOS 2-INPUT AND GATE



SC7SU04F (MOTOROLA) FLAT PACKAGE C-MOS INVERTER - TOP VIEW -

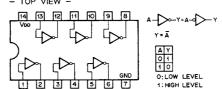


SN74HC02NS (TI) FLAT PACKAGE C-MOS QUAD 24NPUT NOR GATE - TOP VIEW -



SN74HC04NS (TI) FLAT PACKAGE TC74AC04F (TOSHIBA) FLAT PACKAGE

C-MOS HEX INVERTER - TOP VIEW -

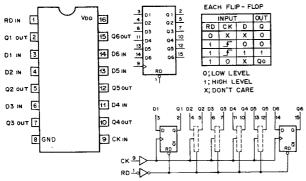


NOTE :	
TYPE	Von
74ACT04 TYPES 74HCT04 TYPES	+5∨
TC74AC04F	+2 to +5.5V
TC74ACT04F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC174NS (TI) FLAT PACKAGE

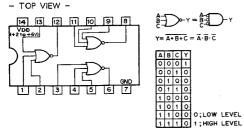
C-MOS D-TYPE FLIP-FLOP WITH RESET - TOP VIEW -





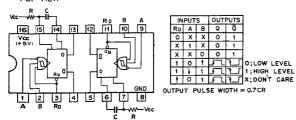
NOTE:	
TYPE	Voo
74AC	+3.3 to +5V
74ACT	+5V
74HC	+2 to +6V
TC74AC174F	+2 to +5.5V

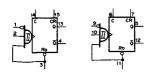
SN74HC27NS (TI) FLAT PACKAGE C-MOS 3-LINE POSITIVE-NOR GATE



SN74LS221NS (TI) FLAT PACKAGE

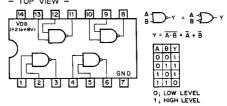
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT - TOP VIEW -





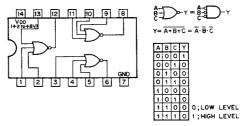
TC40H000F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NAND GATE - TOP VIEW -



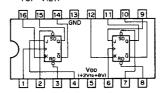
TC40H027F (TOSHIBA) FLAT PACKAGE

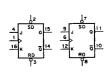
C-MOS 3-INPUT POSITIVE-NOR GATE - TOP VIEW -



TC40H076AF (TOSHIBA) FLAT PACKAGE

C-MOS HIGH SPEED EDGE TRIGGER TYPE J-K FLIP-FLOP WITH DIRECT SET/RESE: — TOP VIEW —

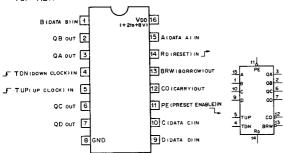




0	INPUTS							
<	к	J	ÇK	SD	RD			
τ	×	Х	X	0	1			
7	X	Х	X	1	0			
$\subset \Gamma$	X	х	Х	0	0			
) N	0	0	T	1	1			
T	0	1	٦_	1	1			
1	1	0	٦_	1	1			
1	1	1	٦	1	1			
K NK	X	X	5	1	1			

0; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

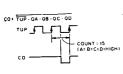
TC40H193F (TOSHIBA) FLAT PACKAGE C-MOS PRESETTABLE SYNCHRONOUS 4-BIT UP/DOWN COUNTER - TOP VIEW -



COUNT

ITROL	INPL	ITS_	MODE				
PE	TUP	TON					
X	X	X	RESET TO ZERO				
0	X	X	PRESET				
1	5	1	UP COUNT				
1	1	1	DOWN COUNT				
1	1	1	NO COUNT				
		PE TUP	x x x				

O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE.



5	0	1	0	1	COUNT
6	0	1	1	0	COUNT
7	0	1	1	1	
8	1	0	0	0	5
9	1	0	O	1_	30
10	1	0	1	0	117
11	1	0	1	1	
12	1	1	0	0	
13	1	1	0	1	111
14	1	1	1	O	
15	1	1	1	1_] [[

OUTPUTS

QD QC QB QA

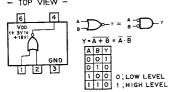
O O O O

O O O 1

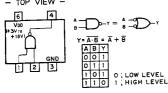
O O 1 O



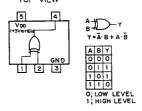
TC4901F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NOR GATE - TOP VIEW -



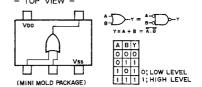
TC4S11F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NAND GATE -- TOP VIEW --



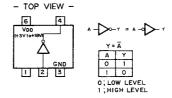
TC4S30F (TOSHIBA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE - TOP VIEW -



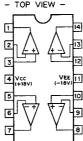
TC4S71F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT OR GATE — TOP VIEW —



TC4SU69F (TOSHIBA) FLAT PACKAGE C-MOS INVERTER BUFFER



TL064CNS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (J FET-INPUT) - TOP VIEW -



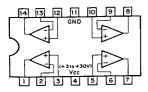
TL082CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (J FET-INPUT) - TOP VIEW -



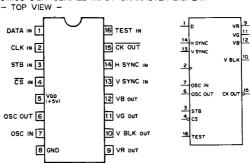
uPC311G2 (NEC) FLAT PACKAGE VOLTAGE COMPARATOR - TOP VIEW -



uPC324G2 (NEC) FLAT PACKAGE QUAD. OP AMPLIFIER - TOP VIEW -



uPD6142G-101 (NEC) FLAT PACKAGE C-MOS 8-BIT SERIALL INPUT CHARACTER DISPLAY



D; DATA INPUT

CK OUT: EQUAL TO OUTPUT OF OSC OUT

CLK; CLOCK INPUT

CS; CHIP SELECT INPUT

H SYNC; H SYNC INPUT

OSC IN, OUT; EXTERNAL TERMINAL FOR OSC

STB; STROBE INPUT

TEST; TEST CLOCK INPUT

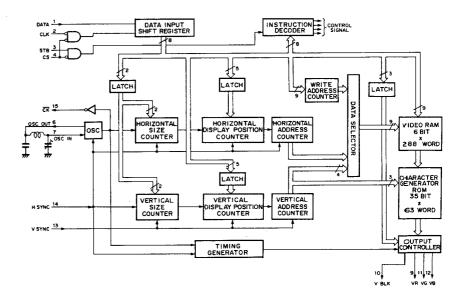
VB; BLUE CHARACTER DATA OUTPUT

VG; GREEN CHARACTER DATA OUTPUT

VG; GREEN CHARACTER DATA OUTPUT

VR; RED CHARACTER DATA OUTPUT

V SYNC; V SYNC INPUT



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